SIGNATURE
IMMUNOLOGICS

Product List

SKU	Item	Host
A100	anti-L-alanine IgG	Rabbit
B100	anti-agmatine (AGB) IgG	Rabbit
D100	anti-L-aspartate IgG	Rabbit
E100	anti-L-glutamate IgG	Rabbit
G100	anti-glycine IgG	Rabbit
J100	anti-glutathione IgG	Rabbit
Q100	anti-L-glutamine IgG	Rabbit
TT100	anti-taurine IgG	Rabbit
YY100	anti-GABA IgG	Rabbit
GCN100	anti-D-glucosamine IgG	Rabbit
cB100	anti-agmatine IgY	Chicken
cE100	anti-L-glutamate IgY	Chicken
cYY100	anti-GABA IgY	Chicken

PRODUCT: **anti-L-alanine IgG**
CATALOGUE # (SKU): **A100**
HOST/TYPE: Rabbit polyclonal IgG
STOCK FORM FACTOR: 0.5 ml calibrated dilution of rabbit serum
DILUENT: 100 mM phosphate buffer, 1% sterilized goat serum, 0.05% thimerosal
APPLICATIONS: Endogenous content mapping by LM & EM immunocytochemistry
DETECTION: Optimized for post-embedding immunocytochemistry
USER DILUTION: 1:100
TRUE DILUTION AT USER DILUTION: 1:8000
NUMBER OF HPI TESTS/VIAL: 2000
SPECIFICITY:No measurable cross-reactivity (<1:1000) against alanine in peptides or proteins. Fixed tissue cross-reactivity tested with known targets at recommended dilution. No measurable glutaraldehyde-fixed tissue cross-reactivity (<1:1000) against D/L-aspartate, D/L-arginine, 1-amino-4-guanidobutane (AGB),gamma-aminobutyrate, L-citrulline, L-cysteine, D/L-glutamate, D/L-glutamine, glutathione, glycine, L-lysine, L-ornithine, L-serine, taurine, L-threonine, L-tryptophan, L-tyrosine. Significant cross-reactivity (1:10) against beta-alanine.
OPTIMAL FIXATION: 0.1-2.5% glutaraldehyde,1% formaldehyde using HPI
MINIMUM GLUTARALDEHYDE: 0.1% using HPI

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PRODUCT: **anti-AGB (anti-agmatine) IgG**
CATALOGUE # (SKU): **B100**
HOST/TYPE: Rabbit polyclonal IgG
STOCK FORM FACTOR: 0.5 ml calibrated dilution of rabbit serum
DILUENT: 100 mM phosphate buffer, 1% sterilized goat serum, 0.05% thimerosal
APPLICATIONS: Excitation mapping by LM and EM immunocytochemistry.
DETECTION: Optimized for post-embedding immunocytochemistry
USER DILUTION: 1:100
TRUE DILUTION AT USER DILUTION: 1:2000
NUMBER OF HPI TESTS/VIAL: 2000
SPECIFICITY: Fixed tissue cross-reactivity tested with known targets at recommended dilution.
No measurable glutaraldehyde-fixed tissue cross-reactivity (<1:1000) against L-alanine, gamma-aminobutyrate, L-citrulline, L-cysteine, D/L-glutamate, D/L-arginine, D/L-glutamine, glutathione, glycine, L-lysine, L-ornithine, L-serine, taurine, L-threonine, L-tryptophan, L-tyrosine
OPTIMAL FIXATION: 0.1-2.5% glutaraldehyde,1% formaldehyde using HPI
MINIMUM GLUTARALDEHYDE: 0.1% using HPI

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PRODUCT: **anti-L-aspartate IgG**
CATALOGUE # (SKU): **D100**
HOST/TYPE: Rabbit polyclonal IgG
STOCK FORM FACTOR: 0.5 ml calibrated dilution of rabbit serum
DILUENT: 100 mM phosphate buffer, 1% sterilized goat serum, 0.05% thimerosal
APPLICATIONS: Endogenous content mapping by LM and EM immunocytochemistry.
DETECTION: Optimized for post-embedding immunocytochemistry
USER DILUTION: 1:100
TRUE DILUTION AT USER DILUTION: 1:2000
NUMBER OF HPI TESTS/VIAL: 2000
SPECIFICITY:No measurable cross-reactivity (<1:1000) against aspartate in peptides or proteins. Fixed tissue cross-reactivity tested with known targets at recommended dilution. No measurable glutaraldehyde-fixed tissue cross-reactivity (<1:1000) against L-alanine,gamma-aminobutyrate, 1-amino-4-guanidobutane (AGB), D/L-arginine, L-citrulline, L-cysteine, D/L-glutamate, D/L-glutamine, glutathione, glycine, L-lysine, L-ornithine, L-serine, taurine, L-threonine, L-tryptophan, L-tyrosine. Significant cross-reactivity (1:10) against D-aspartate.
OPTIMAL FIXATION: 0.5-2.5% glutaraldehyde,1% formaldehyde using HPI
MINIMUM GLUTARALDEHYDE: 0.1% using HPI

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PRODUCT: **anti-L-glutamate IgG**
CATALOGUE # (SKU): **E100**
HOST/TYPE: Rabbit polyclonal IgG
STOCK FORM FACTOR: 0.5 ml calibrated dilution of rabbit serum
DILUENT: 100 mM phosphate buffer, 1% sterilized goat serum, 0.05% thimerosal
APPLICATIONS: Endogenous content mapping by LM and EM immunocytochemistry.
DETECTION: Optimized for post-embedding immunocytochemistry
USER DILUTION: 1:100
TRUE DILUTION AT USER DILUTION: 1:32000
NUMBER OF HPI TESTS/VIAL: 2000
SPECIFICITY: No measurable cross-reactivity (<1:1000) against glutamate in peptides or proteins. Fixed tissue cross-reactivity tested with known targets at recommended dilution. No measurable glutaraldehyde-fixed tissue cross-reactivity (<1:1000) against L-alanine,gamma-aminobutyrate, D/L-aspartate,1-amino-4-guanidobutane (AGB), D/L-arginine, L-citrulline, L-cysteine, D/L-glutamine, glutathione, glycine, L-lysine, L-ornithine, L-serine, taurine, L-threonine, L-tryptophan, L-tyrosine. Modest cross-reactivity (1:20) against D-glutamate. Significant cross-reactivity (1:8) against free NAAG in competition assays (NAAG is not retained in aldehyde-fixed tissue).
OPTIMAL FIXATION: 0.1-2.5% glutaraldehyde,1% formaldehyde using HPI
MINIMUM GLUTARALDEHYDE: 0.0% using EHPI (Enhanced HPI) with 4% formaldehyde

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PRODUCT: **anti-glycine IgG**
CATALOGUE # (SKU): **G100**
HOST/TYPE: Rabbit polyclonal IgG
STOCK FORM FACTOR: 0.5 ml calibrated dilution of rabbit serum
DILUENT: 100 mM phosphate buffer, 1% sterilized goat serum, 0.05% thimerosal
APPLICATIONS: Endogenous content mapping by LM and EM immunocytochemistry.
DETECTION: Optimized for post-embedding immunocytochemistry
USER DILUTION: 1:100
TRUE DILUTION AT USER DILUTION: 1:4000
NUMBER OF HPI TESTS/VIAL: 2000
SPECIFICITY: No measurable cross-reactivity (<1:1000) against glycine in peptides or proteins. Fixed tissue cross-reactivity tested with known targets at recommended dilution. No measurable glutaraldehyde-fixed tissue cross-reactivity (<1:1000) against L-alanine,gamma-aminobutyrate, 1-amino-4-guanidobutane (AGB, D/L-arginine, L-citrulline, L-cysteine, D/L-glutamate, D/L-glutamine, glutathione, L-lysine, L-ornithine, L-serine, taurine, L-threonine, L-tryptophan, L-tyrosine.
OPTIMAL FIXATION: 0.5-2.5% glutaraldehyde,1% formaldehyde using HPI
MINIMUM GLUTARALDEHYDE: 0.1% using HPI

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PRODUCT: **anti-glutathione IgG**
CATALOGUE # (SKU): **J100**
HOST/TYPE: Rabbit polyclonal IgG
STOCK FORM FACTOR: 0.5 ml calibrated dilution of rabbit serum
DILUENT: 100 mM phosphate buffer, 1% sterilized goat serum, 0.05% thimerosal
APPLICATIONS: Endogenous content mapping by LM & EM immunocytochemistry.
DETECTION: Optimized for post-embedding immunocytochemistry
USER DILUTION: 1:100
TRUE DILUTION AT USER DILUTION: 1:4000
NUMBER OF HPI TESTS/VIAL: 2000
SPECIFICITY:Fixed tissue cross-reactivity tested with known targets at recommended dilution. No measurable glutaraldehyde-fixed tissue cross-reactivity (<1:1000) against L-alanine,gamma-aminobutyrate, D/L-aspartate,1-amino-4-guanidobutane (AGB), D/L-arginine, L-citrulline, L-cysteine, D/L-glutamate, D/L-glutamine, glycine, L-lysine, L-ornithine, L-serine, taurine, L-threonine, L-tryptophan, L-tyrosine. Does not discriminate between free GSH and GSSG.
OPTIMAL FIXATION: 0.2-2.5% glutaraldehyde,1% formaldehyde using HPI
MINIMUM GLUTARALDEHYDE: 0.02% using HPI

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PRODUCT: **anti-L-glutamine IgG**
CATALOGUE # (SKU): **Q100**
HOST/TYPE: Rabbit polyclonal IgG
STOCK FORM FACTOR: 0.5 ml calibrated dilution of rabbit serum
DILUENT: 100 mM phosphate buffer, 1% sterilized goat serum, 0.05% thimerosal
APPLICATIONS: Endogenous content mapping by LM and EM immunocytochemistry.
DETECTION: Optimized for High Performance Immunocytochemistry (HPI)
USER DILUTION: 1:100
TRUE DILUTION AT USER DILUTION: 1:2000
NUMBER OF HPI TESTS/VIAL: 2000
SPECIFICITY:No measurable cross-reactivity (<1:1000) against glutamine in peptides or proteins. Fixed tissue cross-reactivity tested with known targets at recommended dilution. No measurable glutaraldehyde-fixed tissue cross-reactivity (<1:1000) against L-alanine,gamma-aminobutyrate, 1-amino-4-guanidobutane (AGB), D/L-arginine, L-citrulline, L-cysteine, D/L-glutamate, glutathione,glycine, L-lysine, L-ornithine, L-serine, taurine, L-threonine, L-tryptophan, L-tyrosine.
OPTIMAL FIXATION: 0.2-2.5% glutaraldehyde,1% formaldehyde using HPI
MINIMUM GLUTARALDEHYDE: 0.01% using HPI

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PRODUCT: **anti-taurine IgG**
CATALOGUE # (SKU): **TT100**
HOST/TYPE: Rabbit polyclonal IgG
STOCK FORM FACTOR: 0.5 ml alibrated dilution of rabbit serum
DILUENT: 100 mM phosphate buffer, 1% sterilized goat serum, 0.05% thimerosal
APPLICATIONS: Endogenous content mapping by LM and EM immunocytochemistry.
DETECTION: Optimized for post-embedding immunocytochemistry
USER DILUTION: 1:100
TRUE DILUTION AT USER DILUTION: 1:16000
NUMBER OF HPI TESTS/VIAL: 2000
SPECIFICITY:Fixed tissue cross-reactivity tested with known targets at recommended dilution. No measurable glutaraldehyde-fixed tissue cross-reactivity (<1:1000) against L-alanine,gamma-aminobutyrate, 1-amino-4-guanidobutane (AGB), D/L-arginine, L-citrulline, L-cysteine, D/L-glutamate, D/L-glutamine, glutathione, glycine, L-lysine, L-ornithine, L-serine, L-threonine, L-tryptophan, L-tyrosine.
OPTIMAL FIXATION: 0.05-2.5% glutaraldehyde,1% formaldehyde using HPI
MINIMUM GLUTARALDEHYDE: 0.0% using EHPI (Enhanced HPI) with 4% formaldehyde

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PRODUCT: **anti-GABA IgG**
CATALOGUE # (SKU): **YY100**
HOST/TYPE: Rabbit polyclonal IgG
STOCK FORM FACTOR: 0.5 ml calibrated dilution of rabbit serum
DILUENT: 100 mM phosphate buffer, 1% sterilized goat serum, 0.05% thimerosal
APPLICATIONS: Endogenous content mapping by LM and EM immunocytochemistry.
DETECTION: Optimized for post-embedding immunocytochemistry
USER DILUTION: 1:100
TRUE DILUTION AT USER DILUTION: 1:32000
NUMBER OF HPI TESTS/VIAL: 2000
SPECIFICITY: Fixed tissue cross-reactivity tested with known targets at recommended dilution.
No measurable glutaraldehyde-fixed tissue cross-reactivity (<1:1000) against:

L-alanine	D/L-aspartate	agmatine	D/L-arginine	L-citrulline
L-cysteine	D/L-glutamate	D/L-glutamine	glutathione	glycine
L-histidine	L-isoleucine	L-lysine	L-leucine	L-methionine
L-asparagine	L-ornithine	L-proline	L-serine	taurine
L-threonine	L-valine	L-tryptophan	L-tyrosine	

No measurable reactivity against formaldehyde fixed proteins.

OPTIMAL FIXATION: 0.1-2.5% glutaraldehyde,1% formaldehyde using HPI

MINIMUM GLUTARALDEHYDE: 0.05% using EHPI (Enhanced HPI) with 4% formaldehyde

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PRODUCT: **anti-D-glucosamine IgG**
CATALOGUE # (SKU): **GCN100**
HOST/TYPE: Rabbit polyclonal IgG
STOCK FORM FACTOR: 0.5 ml calibrated dilution of rabbit serum
DILUENT: 100 mM phosphate buffer, 1% sterilized goat serum, 0.05% thimerosal
APPLICATIONS: Endogenous content mapping by LM and EM immunocytochemistry.
DETECTION: Optimized for post-embedding immunocytochemistry
USER DILUTION: 1:100
TRUE DILUTION AT USER DILUTION: 1:2000
NUMBER OF HPI TESTS/VIAL: 2000
SPECIFICITY: Fixed tissue cross-reactivity tested with known targets at recommended dilution. No measurable glutaraldehyde-fixed tissue cross-reactivity (<1:1000) against any free D or L amino acid. The IgG is highly specific for glucosamine (L/D differences not determined yet). As most other pentoses are unfixable (lacking primary amino groups), GCN100 cannot detect them in fixed tissues.

No measurable reactivity against formaldehyde fixed proteins suggests that GCN100 does not bind glycosylated proteins in sufficient amounts to be detected by optical or electron microscopy.

OPTIMAL FIXATION: 0.1-2.5% glutaraldehyde,1% formaldehyde using HPI

MINIMUM GLUTARALDEHYDE: 0.05% using EHPI (Enhanced HPI) with 4% formaldehyde

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PRODUCT: **anti-AGB (anti-agmatine) IgY**
CATALOGUE # (SKU): **cB100**
HOST/TYPE: Chicken polyclonal IgY
STOCK FORM FACTOR: 0.5 ml calibrated dilution of purified IgY
DILUENT: 100 mM phosphate buffer, 1% sterilized goat serum, 0.05% thimerosal
APPLICATIONS: Excitation mapping by LM immunocytochemistry
DETECTION: Optimized for post-embedding immunocytochemistry
USER DILUTION: 1:100
TRUE DILUTION AT USER DILUTION: 1:2000
NUMBER OF HPI TESTS/VIAL: 2000
SPECIFICITY: Fixed tissue cross-reactivity tested with known targets at recommended dilution.
No measurable glutaraldehyde-fixed tissue cross-reactivity (<1:1000) against
L-alanine, gamma-aminobutyrate, L-citrulline, L-cysteine, D/L-glutamate,
D/L-arginine, D/L-glutamine, glutathione, glycine, L-lysine, L-ornithine,
L-serine, taurine, L-threonine, L-tryptophan, L-tyrosine
OPTIMAL FIXATION: 0.1-2.5% glutaraldehyde,1% formaldehyde using HPI
MINIMUM GLUTARALDEHYDE: 0.1% using HPI

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PRODUCT: **anti-GABA IgY**
CATALOGUE # (SKU): **cYY100**
HOST/TYPE: Chicken polyclonal IgY
STOCK FORM FACTOR: 0.5 ml calibrated dilution of purified IgY
DILUENT: 100 mM phosphate buffer, 1% sterilized goat serum, 0.05% thimerosal
APPLICATIONS: Endogenous content mapping by LM and EM immunocytochemistry.
DETECTION: Optimized for post-embedding immunocytochemistry
USER DILUTION: 1:100
TRUE DILUTION AT USER DILUTION: 1:32000
NUMBER OF HPI TESTS/VIAL: 2000
SPECIFICITY: Fixed tissue cross-reactivity tested with known targets at recommended dilution.
No measurable glutaraldehyde-fixed tissue cross-reactivity (<1:1000) against:

L-alanine	D/L-aspartate	agmatine	D/L-arginine	L-citrulline
L-cysteine	D/L-glutamate	D/L-glutamine	glutathione	glycine
L-histidine	L-isoleucine	L-lysine	L-leucine	L-methionine
L-asparagine	L-ornithine	L-proline	L-serine	taurine
L-threonine	L-valine	L-tryptophan	L-tyrosine	

No measurable reactivity against formaldehyde fixed proteins.

OPTIMAL FIXATION: 0.1-2.5% glutaraldehyde,1% formaldehyde using HPI

MINIMUM GLUTARALDEHYDE: 0.05% using EHPI (Enhanced HPI) with 4% formaldehyde

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PRODUCT: **anti-L-glutamate IgY**
CATALOGUE # (SKU): **cE100**
HOST/TYPE: Chicken polyclonal IgY
STOCK FORM FACTOR: 0.5 ml calibrated dilution of purified IgY
DILUENT: 100 mM phosphate buffer, 1% sterilized goat serum, 0.05% thimerosal
APPLICATIONS: Endogenous content mapping by LM and EM immunocytochemistry.
DETECTION: Optimized for post-embedding immunocytochemistry
USER DILUTION: 1:100
TRUE DILUTION AT USER DILUTION: 1:32000
NUMBER OF HPI TESTS/VIAL: 2000
SPECIFICITY: No measurable cross-reactivity (<1:1000) against glutamate in peptides or proteins. Fixed tissue cross-reactivity tested with known targets at recommended dilution. No measurable glutaraldehyde-fixed tissue cross-reactivity (<1:1000) against L-alanine,gamma-aminobutyrate, D/L-aspartate,1-amino-4-guanidobutane (AGB), D/L-arginine, L-citrulline, L-cysteine, D/L-glutamine, glutathione, glycine, L-lysine, L-ornithine, L-serine, taurine, L-threonine, L-tryptophan, L-tyrosine. Modest cross-reactivity (1:20) against D-glutamate. Significant cross-reactivity (1:8) against free NAAG in competition assays (NAAG is not retained in aldehyde-fixed tissue).
OPTIMAL FIXATION: 0.1-2.5% glutaraldehyde,1% formaldehyde using HPI
MINIMUM GLUTARALDEHYDE: 0.0% using EHPI (Enhanced HPI) with 4% formaldehyde

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