Product datasheet

Anti-L Glutamate antibody ab62668

Overview

Product name  Anti-L Glutamate antibody
Description  Chicken polyclonal to L Glutamate
Host species  Chicken
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).

Tested applications  Suitable for: IHC - Wholemount, ICC
Species reactivity  Reacts with: Species independent
Immunogen  L Glutamate cross-linked to purified fraction V bovine serum albumin with glutaraldehyde.

Properties

Form  Liquid
Storage instructions  Shipped at +4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer  Preservative: 0.05% Thimerosal (merthiolate)
Constituent: 0.268% PBS
Purity  IgY fraction
Purification notes  IgYs were separated from other yolk proteins by serial PEG6000 extractions using a modification of the method of Polson et al. Immunological Investigations. 1985, 14, 323-327.
Clonality  Polyclonal
Isotype  IgY

Applications

Our Abpromise guarantee covers the use of ab62668 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
L Glutamate is a non-essential amino acid naturally occurring in the L-form. It is the most common excitatory neurotransmitter in the Central Nervous System.

### Application

<table>
<thead>
<tr>
<th>Method</th>
<th>Notes</th>
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<tbody>
<tr>
<td>IHC - Wholemount</td>
<td>Use at an assay dependent concentration.</td>
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<tr>
<td>ICC</td>
<td>1/100. Endogenous content mapping by LM and EM immunocytochemistry. True dilution at user dilution: 1/32000. Optimal fixation: 0.1-2.5% glutaraldehyde, 1% formaldehyde using HPI (High Performance Immunocytochemistry). Minimum glutaraldehyde: 0.0% using EHPI (Enhanced HP) with 4% formaldehyde.</td>
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### Target

### Relevance

L Glutamate is a non-essential amino acid naturally occurring in the L-form. It is the most common excitatory neurotransmitter in the Central Nervous System.

### Images

IHC - Wholemount of mouse brain tissue labelling L Glutamate with ab62668. Sample was incubated with primary antibody (1/100 in 1X PBS + 0.3% Triton X-100 + 2 % normal goat serum) for 48 hours at 4°C. **ab150174**, a goat anti-chicken IgY Alexa Fluor® 555 (1/500) was used as the secondary antibody (assigned red color).

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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