

# D-Glutamate rabbit pAb – IS1002

Ref: IS1002-sp

This anti-D-Glutamate rabbit polyclonal antibody IS1002 was developed to ensure superior affinity and specificity. Combined with the [STAINperfect immunostaining kit A](#), this antibody allows direct D-Glutamic acid visualization in cell cultures, whole mounts and tissue sections.

<b>Clonality</b>	Polyclonal antibody
<b>Host</b>	Rabbit
<b>Reactivity</b>	Reacts with all species
<b>Eligible samples</b>	Whole mounts, cell culture, tissue sections
<b>Staining procedure</b>	<a href="#">STAINperfect immunostaining kit A</a>
<b>Format</b>	50µL (approx. 40 tissue sections)

## INFORMATIONS

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### Product overview

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<b>Product name</b>	D-Glutamate antibody – Rabbit pAb
<b>Synonyms</b>	Anti-D-Glutamic acid antibody
<b>Immunogen</b>	Conjugated D-Glutamate
<b>Specificity</b>	When tested in competitive ELISA, the anti-conjugated D-Glutamate antibody did not show any significant cross reactivity with D-Glutamate analogs, L-Glutamate and D-Aspartate

### Reconstitution & storage

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<b>Form</b>	Liquid
<b>Purity</b>	Purified anti-serum
<b>Storage buffer</b>	Store at +4°C for short term (1-2 months). Aliquot and store at -20°C for long term. Avoid repeated freeze / thaw cycles
<b>Material safety datasheet</b>	<a href="#">Download MSDS</a>

# PROTOCOLS

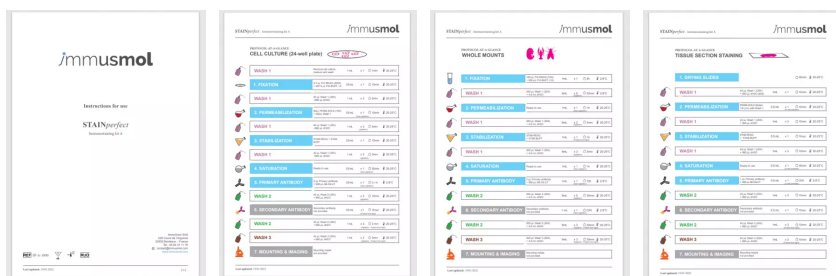
**IF - Cell cultures, Whole mounts, Tissue sections** Dilute antibody with the antibody diluent provided in the [STAINperfect immunostaining kit A](#). Use at 1/250 -1/1000 dilution. Follow the STAINperfect protocol suited to your sample

**Comments** Optimal working dilutions must be determined by the end-user

**Restrictions** For research use only

**Full protocol** [Download STAINperfect protocol for D-Glutamate staining](#)

## Protocols-at-a-glance



[Complete Instructions for Use](#)

[Protocol-at-a-glance for cell cultures](#)

[Protocol-at-a-glance for whole mounts](#)

[Protocol-at-a-glance for tissue sections](#)

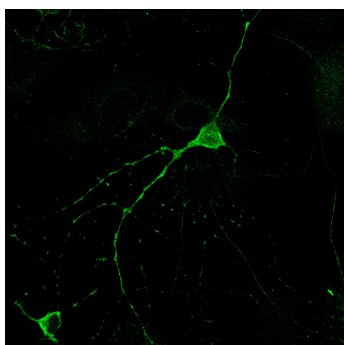
## REFERENCES

Antibody not yet cited. Submit an article and [get a 10% discount](#).

### Selected papers on D-Glutamic acid:

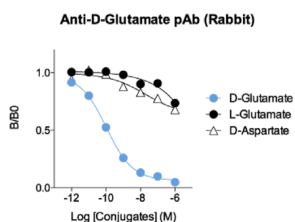
- [Dayer MR and Dayer MS. Hypoglycemic Effects of D-glutamic Acid in Diabetic Rats International Journal of Pharmacology, 2010 Nov 6: 930-936.](#)
- [Mangas A et al. Immunocytochemical visualization of D-glutamate in the rat brain. Neuroscience. 2007 Jan 19;144\(2\):654-64. Epub 2006 Nov 3.](#)
- [Fisher GH et al. Presence of D-aspartate and D-glutamate in tumor proteins. Cancer Biochem Biophys. 1995 Nov;15\(2\):79-82.](#)
- [Kera Y et al. Presence of free D-glutamate and D-aspartate in rat tissues. Biochim Biophys Acta. 1995 Feb 23;1243\(2\):283-6.](#)

## Product pictures



### D-Glutamate detection in primary mouse cortical neurons

Primary mouse cortical neurons were stained using ImmuSmol anti-D-Glutamate antibody using the STAINperfect immunostaining kit A and following the optimized protocol for cell culture. Alexa fluor 488 conjugated secondary antibodies were used and image was captured by confocal imaging.



### Affinity & specificity of anti-D-Glutamate antibody

Competitive ELISA demonstrates that low amount of D-Glutamate conjugate is required to abolish antigen-antibody reaction (high affinity), while rising concentrations of L-Glutamate and D-Aspartate conjugates do not affect reaction (high specificity).

## Contact information

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**To order, review, ask for technical support, visit product page at:**

<https://www.immusmol.com/shop/d-glutamate-polyclonal-antibody-bundle/>