

# Anti-conjugated D-Serine antibody

Ref: IS1004

Clonality	Polyclonal antibody
Host	Rabbit
Applications	IHC / IF
Species reactivity	Reacts with all species
References	Not yet cited to our knowledge.
Format	50µl

# Product information

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## Product overview

Product name	Anti-conjugated D-Serine antibody
Synonyms	Anti-D-Serine rabbit polyclonal antibody
Immunogen	Conjugated D-Serine
Specificity	When tested in competitive ELISA, the anti-conjugated D-Serine antibody did not show any significant cross reactivity with D-Serine analogs, including L-Serine and D-Threonine.
Lot number	140301

## Reconstitution & storage

Form	Lyophilized powder
Purity	Purified anti-serum
Storage	Store at 4 °C
Storage buffer	Before use, vial should be resuspended in 50 µL of ultrapure water. Store at +4 °C for short term (1-2 weeks). Aliquot and store at -20 °C for long term. Avoid repeated freeze / thaw cycles.

# Applications

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<b>Immunohistochemistry (IHC)</b>	Optimal working conditions must be determined by the end-user.
<b>Immunofluorescence (IF)</b>	Optimal working conditions must be determined by the end-user.
<b>Restrictions</b>	For research use only

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## References

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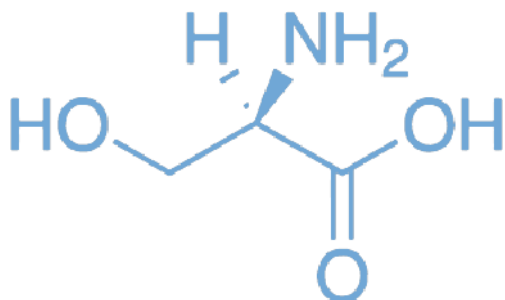
Antibody not yet cited.

Selected publications on D-Serine:

- [Paul P, de Belleruche J. The role of D-serine and glycine as co-agonists of NMDA receptors in motor neuron degeneration and amyotrophic lateral sclerosis \(ALS\). Front Synaptic Neurosci. 2014 Apr 16;6:10.](#)
- [Balu DT et al. D-serine and serine racemase are localized to neurons in the adult mouse and human forebrain. Cell Mol Neurobiol. 2014 Apr;34\(3\):419-35. doi: 10.1007/s10571-014-0027-z. Epub 2014 Jan 17.](#)
- [Klatte K et al. Impaired D-serine-mediated cotransmission mediates cognitive dysfunction in epilepsy. J Neurosci. 2013 Aug 7;33\(32\):13066-80.](#)
- [Otte DM et al. Effects of Chronic D-Serine Elevation on Animal Models of Depression and Anxiety-Related Behavior. PLoS One. 2013 Jun 21;8\(6\):e67131.](#)
- [Martineau M et al. Storage and uptake of D-serine into astrocytic synaptic-like vesicles specify gliotransmission. J Neurosci. 2013 Feb 20;33\(8\):3413-23. doi: 10.1523/JNEUROSCI.3497-12.2013.](#)
- [Van Horn MR, Sild M, Ruthazer ES. D-serine as a gliotransmitter and its roles in brain development and disease. Front Cell Neurosci. 2013 Apr 23;7:39. doi: 10.3389/fncel.2013.00039.](#)

# Pictures

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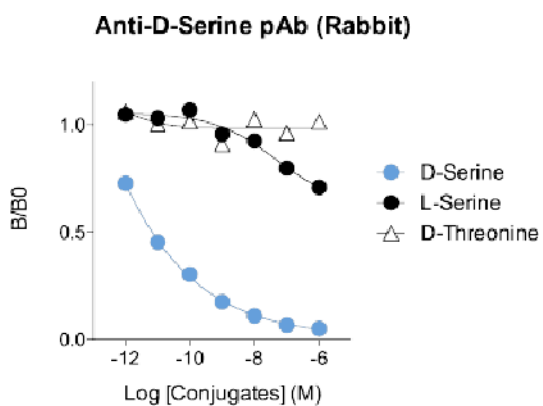


D-Serine

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

Competitive ELISA demonstrates that low amounts of D-Serine conjugate are required to abolish antigen-antibody reaction (high affinity), while rising concentrations of L-Serine and D-Threonine conjugates do not affect reaction (high specificity).



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