

# Datasheet for ABIN968727 anti-SRR antibody (AA 127-248)

1 Image

2 Publications



### Overview

Quantity:	150 µg
Target:	SRR
Binding Specificity:	AA 127-248
Reactivity:	Rat, Mouse
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This SRR antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

# Product Details

Immunogen:	Mouse serine racemase aa. 127-248
Clone:	29-Serine Racemase
lsotype:	lgG1
Cross-Reactivity:	Rat (Rattus)
Characteristics:	<ol> <li>Since applications vary, each investigator should titrate the reagent to obtain optimal results.</li> <li>Please refer to us for technical protocols.</li> <li>Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.</li> <li>Source of all serum proteins is from USDA inspected abattoirs located in the United States.</li> </ol>
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity

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## Product Details

chromatography.

# Target Details

Target:	SRR
Alternative Name:	Serine Racemase (SRR Products)
Background:	The majority of synapses in the central nervous system utilize glutamate as a neurotransmitter to produce rapid neuronal excitation. Glutamate has a diverse array of receptors that can be categorized into two groups: ionotropic and metabotropic. The ionotropic receptors are subdivided into two distinct types: 1) receptors for N-methyl D-aspartate (NMDAR) and 2) non- NMDA receptors for AMPA and kainate. NMDA receptors require coactivation at both glutamate and glycine sites. D-serine is a D-amino acid found in mammalian tissues that can act as a potent ligand for the glycine site on NMDA receptors. D-serine is made by the enzyme serine racemase, which is a member of the pyridoxal-5' phosphate (PLP)-dependent enzyme family. Serine racemase mRNA is expressed in brain and liver, and serine racemase protein is expressed in glial cells. Degradation of D-serine by D-amino acid oxidase attenuates NMDA receptor-mediated calcium influx, and implicates D-serine as an endogenouse modulator of NMDA receptor function. Thus, glial cell production of D-serine via serine racemase activity may be an important system for modulation of synaptic transmission. This antibody is routinely tested by western blot analysis.
Molecular Weight:	38 kDa

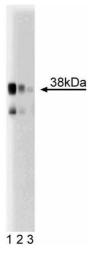
Application Details

Comment:	Related Products: ABIN968540, ABIN967389
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and $\leq 0.09$ % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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Handling	
Storage:	-20 °C
Storage Comment:	Store undiluted at -20° C.
Publications	
Product cited in:	Mothet, Parent, Wolosker, Brady, Linden, Ferris, Rogawski, Snyder: "D-serine is an endogenous
	ligand for the glycine site of the N-methyl-D-aspartate receptor." in: Proceedings of the
	National Academy of Sciences of the United States of America, Vol. 97, Issue 9, pp. 4926-31, (
	2000) (PubMed).
	Wolosker, Blackshaw, Snyder: "Serine racemase: a glial enzyme synthesizing D-serine to
	regulate glutamate-N-methyl-D-aspartate neurotransmission." in: Proceedings of the National
	Academy of Sciences of the United States of America, Vol. 96, Issue 23, pp. 13409-14, (1999)
	(PubMed).

Images



#### Western Blotting

**Image 1.** Western blot analysis of serine racemase in a mouse cerebrum lysate. Lane 1: 1:500, lane 2: 1:1000, lane 3: 1:2000 dilution of the anti- serine racemase antibody.

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