

Anti-Serine racemase Rabbit Monoclonal Antibody

Catalog # ABO16537

Product Information

Application	WB
Primary Accession	Q9GZT4
Host	Rabbit
Isotype	IgG
Reactivity	Human
Clonality	Monoclonal
Format	Liquid
Description	Anti-Serine racemase Rabbit Monoclonal Antibody . Tested in WB application. This antibody reacts with Human.

Additional Information

Gene ID	63826
Other Names	Serine racemase, 5.1.1.18, D-serine ammonia-lyase, D-serine dehydratase, 4.3.1.18, SRR
Calculated MW	36566
Application Details	WB 1:500-1:2000
Source	Eukaryota
Contents	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
Clone Names	Clone: 30S73
Immunogen	A synthesized peptide derived from human Serine racemase
Purification	Affinity-chromatography
Storage	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

Protein Information

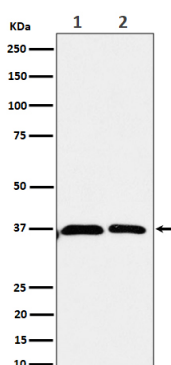
Name	SRR
Function	Pyridoxal-5'-phosphate (PLP)-dependent enzyme that catalyzes the synthesis of D-serine from L-serine (PubMed: 20106978 , PubMed: 23391306 , PubMed: 29277459). D-serine is a key coagonist with glutamate at NMDA receptors. In addition to racemization, has dehydratase activity towards both L-serine and D-serine, a two-step reaction in which the hydroxyl group of

serine is eliminated to produce aminoacrylate (2-aminoprop-2-enoate), and then the aminoacrylate (an unstable intermediate) is deaminated by nonenzymatic hydrolysis to produce pyruvate (By similarity).

Tissue Location

Expressed in the cerebellum, hippocampus, dorsolateral prefrontal cortex, and in motor neurons and glial cells of the lumbar spinal cord (at protein level) (PubMed:17880399, PubMed:24138986). Increased in the dorsolateral prefrontal cortex of schizophrenic patients (at protein level) (PubMed:17880399). Brain: expressed at high levels in hippocampus and corpus callosum, intermediate levels in substantia nigra and caudate, and low levels in amygdala, thalamus, and subthalamic nuclei (PubMed:15193426). Expressed in heart, skeletal muscle, kidney, and liver (PubMed:15193426)

Images



Western blot analysis of Serine racemase expression in (1) 293 cell lysate; (2) U-87 MG cell lysate.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.