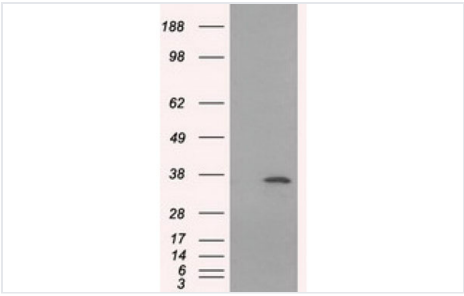
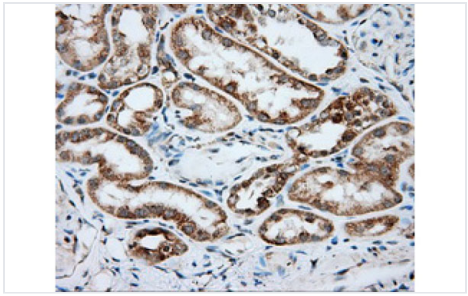
SRR Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

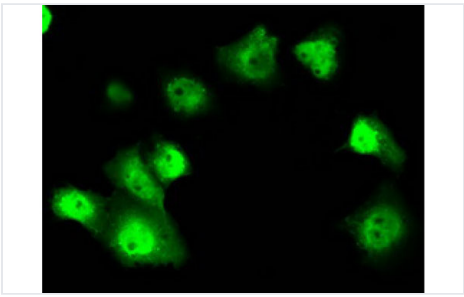
Product Name	SRR, Monoclonal Antibody
Full Product Name	SRR antibody
Product Gene Name	anti-SRR antibody
Product Synonym Names	Monoclonal SRR; Anti-SRR; Serine Racemase; ILV1; ISO1
Clonality	Monoclonal
Isotype	IgG1
Clone Number	5G3
Host	Mouse
Form/Format	Supplied in PBS buffer, pH 7.3, containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Purity/Purification	SRR antibody was purified by affinity chromatography.
Concentration	500 ug-1 mg/ml (lot specific)
Preparation and Storage	Store at 4 degree C for short term storage. Aliquot and store at -20 degree C for long term storage. Avoid repeated freeze/thaw cycles.
Molecular Weight	36,566 Da
OMIM	606477
3D Structure	ModBase 3D Structure for Q9GZT4
Cross-Reactivity	Human
Immunogen	SRR antibody was raised in mouse using a full length recombinant protein of human SRR (NP_068766) produced in HEK293T cells, as the immunogen.
Product Categories/Family for anti-SRR antibody	Proteases; Inhibitors; & Enzymes
Applications Tested/Suitable for anti-SRR antibody	Flow Cytometry (FC/FACS), Immunofluorescence (IF), Immunohistochemistry (IHC), Western Blot (WB)
Application Notes for anti-SRR antibody	FC: 1:100 IF: 1:100 IHC: 1:50 WB: 1:2000
Related Product Information for anti-SRR antibody	MBS832235 is an antibody targeting SRR. Also known as SRR antibody. Host: Mouse. Mouse monoclonal SRR antibody
Other Notes	Small volumes of anti-SRR antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-SRR antibody
Western Blot analysis of HEK293T cell lysates (5 ug) transfected with either recombinant SRR protein (Right) or empty vector (Left) detected with SRR antibody



Immunohistochemistry (IHC) of anti-SRR antibody
Immunohistochemical analysis of SRR protein in paraffin embedded Human kidney tissue using SRR antibody



Immunofluorescence (IF) of anti-SRR antibody
Immunofluorescent staining of COS7 cells transiently transfected with recombinant SRR protein using SRR antibody

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SRR. It may not necessarily be applicable to this product.

NCBI GI #	11345492
NCBI GeneID	63826
NCBI Accession #	NP_068766
UniProt Primary Accession #	Q9GZT4
UniProt Secondary Accession #	Q6IA55; D3DTI5
UniProt Related Accession #	Q9GZT4
GenBank Nucleotide #	NM_021947.1
NCBI Official Full Name	serine racemase isoform a
NCBI Official Synonym Full Names	serine racemase
NCBI Official Symbol	SRR
NCBI Official Synonym Symbols	ILV1; ISO1
UniProt Protein Name	Serine racemase
UniProt Synonym Protein Names	D-serine ammonia-lyase; D-serine dehydratase; L-serine ammonia-lyase; L-serine dehydratase
Protein Family	Probable serine racemase
UniProt Gene Name	SRR
UniProt Entry Name	SRR_HUMAN
NCBI Protein Information	serine racemase

UniProt Comments for SRR	SRR: Catalyzes the synthesis of D-serine from L-serine. D- serine is a key coagonist with glutamate at NMDA receptors. Has dehydratase activity towards both L-serine and D-serine. Belongs to the serine/threonine dehydratase family. Protein type: Amino Acid Metabolism - glycine, serine and threonine; EC 4.3.1.18; EC 4.3.1.17; EC 5.1.1.18; Isomerase Chromosomal Location of Human Ortholog: 17p13 Cellular Component: cell soma; apical part of cell; cytoplasm; plasma membrane Molecular Function: protein homodimerization activity; glycine binding; threonine racemase activity; L-serine ammonia-lyase activity; magnesium ion binding; calcium ion binding; serine racemase activity; D-serine ammonia-lyase activity; ATP binding; PDZ domain binding; pyridoxal phosphate binding Biological Process: response to drug; pyruvate biosynthetic process; L-serine metabolic process; response to morphine; response to lipopolysaccharide; brain development; serine family amino acid metabolic process; aging; protein homotetramerization
Research Articles on SRR	**1.** In serine racemase, similarly to the related enzyme alanine racemase, the unprotonated pyridoxal-5'-phosphate - substrate intermediate is stabilized mostly due to solvation effects contributed by water molecules and active-site residues.
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