

**SRR / Serine Racemase Antibody (clone 9E8)**  
**Mouse Monoclonal Antibody**  
**Catalog # ALS16796****Specification**

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**SRR / Serine Racemase Antibody (clone 9E8) - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | IHC, IF, WB, FC        |
| Primary Accession | <a href="#">O9GZT4</a> |
| Other Accession   | <a href="#">63826</a>  |
| Reactivity        | Human                  |
| Host              | Mouse                  |
| Clonality         | Monoclonal             |
| Isotype           | IgG1                   |
| Calculated MW     | 36566                  |

**SRR / Serine Racemase Antibody (clone 9E8) - Additional Information****Gene ID** 63826**Other Names**

SRR, D-serine dehydratase, ISO1, L-serine ammonia-lyase, L-serine dehydratase, ILV1, Serine racemase, D-serine ammonia-lyase

**Target/Specificity**

Human SRR / Serine Racemase

**Reconstitution & Storage**

PBS, pH 7.3, 1% BSA, 50% glycerol, 0.02% sodium azide. Store at -20°C. Minimize freezing and thawing.

**Precautions**

SRR / Serine Racemase Antibody (clone 9E8) is for research use only and not for use in diagnostic or therapeutic procedures.

**SRR / Serine Racemase Antibody (clone 9E8) - Protein Information****Name** SRR**Function**

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.

**Tissue Location**

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. Expressed in heart, skeletal muscle, kidney and liver

**Volume**

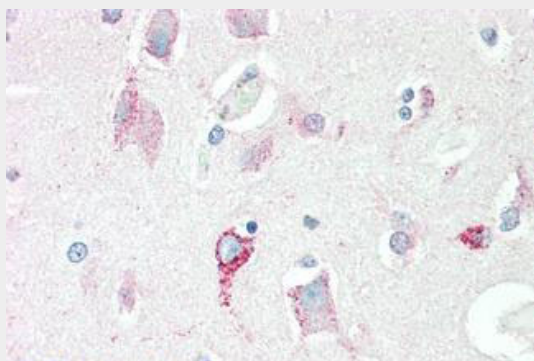
50  $\mu$ l

### **SRR / Serine Racemase Antibody (clone 9E8) - Protocols**

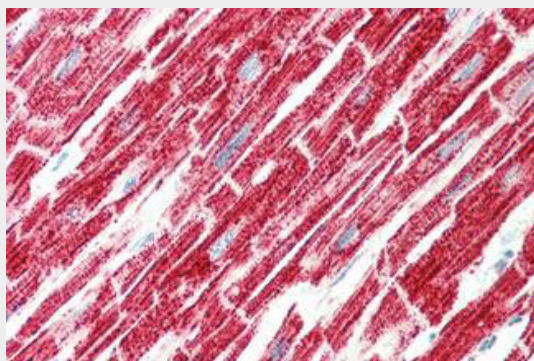
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

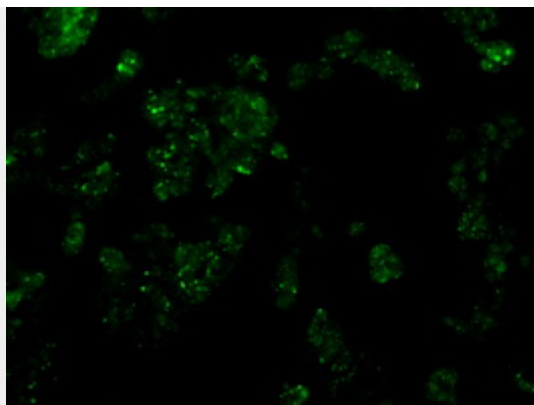
### **SRR / Serine Racemase Antibody (clone 9E8) - Images**



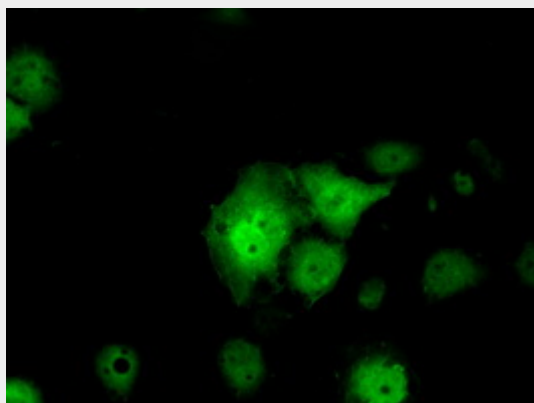
Anti-SRR / Serine Racemase antibody IHC staining of human brain, cortex.



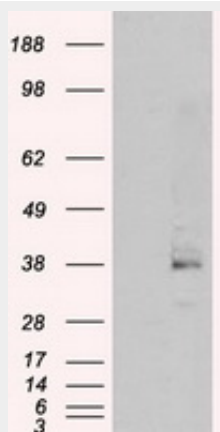
Anti-SRR / Serine Racemase antibody IHC staining of human heart.



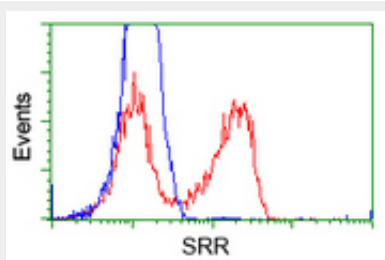
Immunofluorescent staining of HepG2 cells using anti-SRR mouse monoclonal antibody.



Anti-SRR mouse monoclonal antibody immunofluorescent staining of COS7 cells transiently...



HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY SRR...



HEK293T cells transfected with either pCMV6-ENTRY SRR (Red) or empty vector control

plasmid...

### **SRR / Serine Racemase Antibody (clone 9E8) - Background**

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.

### **SRR / Serine Racemase Antibody (clone 9E8) - References**

De Miranda J.,et al.Gene 256:183-188(2000).

Xia M.,et al.Brain Res. Mol. Brain Res. 125:96-104(2004).

Ota T.,et al.Nat. Genet. 36:40-45(2004).

Ebert L.,et al.Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.

Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.