

Product Name: KD-Validated Serine Racemase Recombinant Rabbit Monoclonal Antibody
Catalog #: KVA00873

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 36.6kDa

Antigen Information

Gene Name	SRR
Alternative Names	SRR; Serine Racemase; ILV1; ISO1; D-Serine Ammonia-Lyase; L-Serine Ammonia-Lyase; D-Serine Dehydratase; L-Serine Dehydratase; EC 5.1.1.18; EC 4.3.1.18; EC 4.3.1.17
Gene ID	63826.0
SwissProt ID	Q9GZT4
Immunogen	A synthesized peptide derived from human Serine racemase

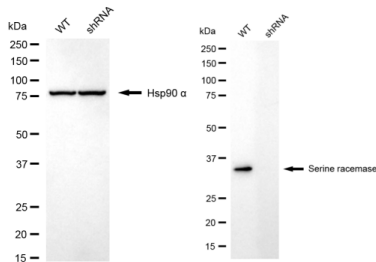
Background

Enables several functions, including L-serine ammonia-lyase activity; PDZ domain binding activity; and heterocyclic compound binding activity. Involved in carboxylic acid metabolic process and response to lipopolysaccharide. Located in cytoplasm and neuronal cell body. [provided by Alliance of Genome Resources, Jul 2025]

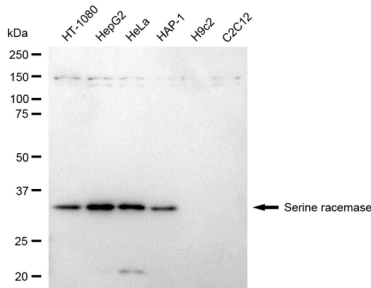
Research Area

Neuroscience

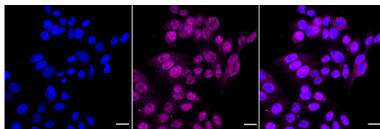
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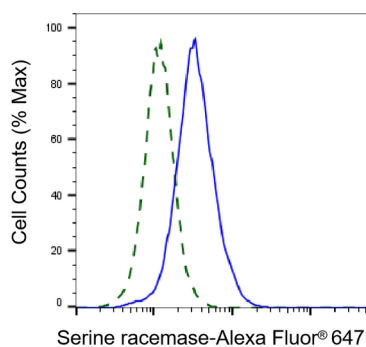
Western blotting analysis using Serine racemase antibody (KVA00873). Serine racemase expression in wild type (WT) and Serine racemase shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with Serine racemase antibody (KVA00873, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



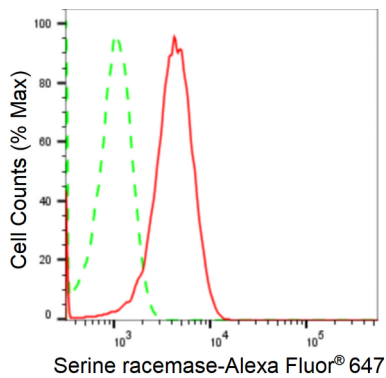
Western blotting analysis using Serine racemase antibody (KVA00873). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Serine racemase antibody (KVA00873, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with Serine racemase antibody (KVA00873, 1:1,000). Nuclei were stained blue with DAPI; Serine racemase was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.



Validation of Serine racemase knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with Serine racemase antibody (KVA00873, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of Serine racemase expression in HepG2 cells using Serine racemase antibody (KVA00873, 1:2,000). Green, isotype control; red, Serine racemase.