abcam

Product datasheet

Anti-Serine racemase antibody [EPR16682] ab200833

Recombinant   RabMAb

1 References   **4 Images**

Overview

Product name	Anti-Serine racemase antibody [EPR16682]
Description	Rabbit monoclonal [EPR16682] to Serine racemase
Host species	Rabbit
Tested applications	**Suitable for:** WB, IP **Unsuitable for:** ICC/IF
Species reactivity	**Reacts with:** Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: LNCaP, U-87 MG and HEK293 whole cell lysates; Human fetal brain lysate. IP: HEK293 and LNCaP whole cell lysates.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR16682

Isotype	IgG	

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab200833 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/2000. Detects a band of approximately 37 kDa (predicted molecular weight: 37 kDa).
IP		1/50.

Application notes Is unsuitable for ICC/IF.

Target

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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 specificity	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.
Sequence similarities	Belongs to the serine/threonine dehydratase family.
Post-translational modifications	S-nitrosylated, leading to decrease the enzyme activity.

Images

Western blot - Anti-Serine racemase antibody [EPR16682] (ab200833)
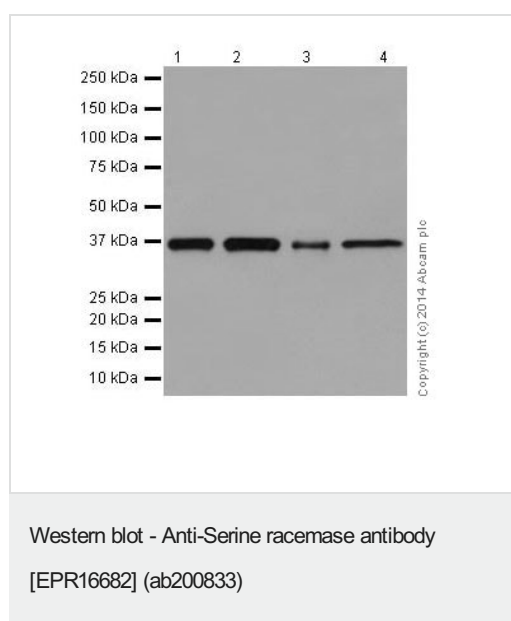
All lanes : Anti-Serine racemase antibody [EPR16682] (ab200833) at 1/5000 dilution

Lane 1 : LNCaP (Human prostate cancer cell line) whole cell lysate
Lane 2 : Human fetal brain tissue lysate
Lane 3 : U-87 MG (Human glioblastoma-astrocytoma epithelial cell line) whole cell lysate
Lane 4 : HEK-293 (Human embryonic kidney) whole cell lysate
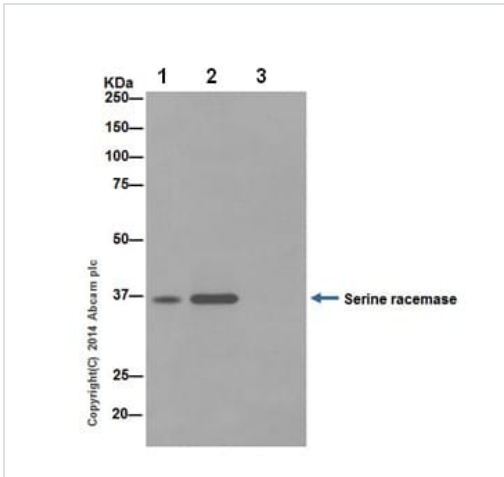
Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 37 kDa

Observed band size: 37 kDa

Exposure time: 3 minutes
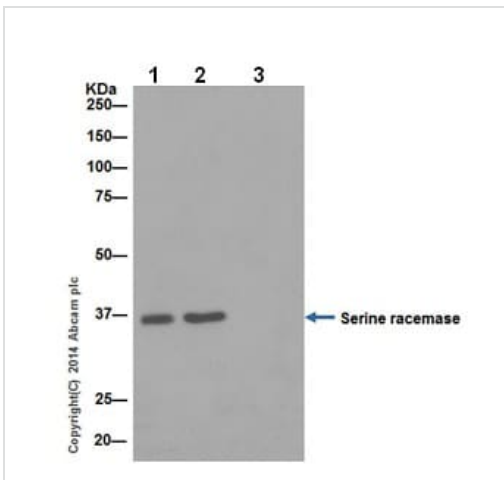
Blocking/Dilution Buffer: 5% NFDM/TBST.

Immunoprecipitation - Anti-Serine racemase antibody [EPR16682] (ab200833)

Serine racemase was immunoprecipitated from 1mg of HEK293 (Human embryonic kidney) whole cell lysate with ab200833 at 1/50 dilution. Western blot was performed from the immunoprecipitate using ab200833 at 1/1000 dilution. Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG, was used as secondary antibody at 1/1500 dilution.

Lane 1: HEK293 whole cell lysate 10 µg (Input). Lane 2: ab200833 IP in HEK293 whole cell lysate. Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of ab200833 in HEK293 whole cell lysate. Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 30 seconds

Immunoprecipitation - Anti-Serine racemase antibody [EPR16682] (ab200833)

Serine racemase was immunoprecipitated from 1mg of LNCaP (Human prostate cancer cell line) whole cell lysate with ab200833 at 1/50 dilution. Western blot was performed from the immunoprecipitate using ab200833 at 1/1000 dilution. Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG, was used as secondary antibody at 1/1500 dilution.

Lane 1: LNCaP whole cell lysate 10 µg (Input). Lane 2: ab200833 IP in LNCaP whole cell lysate. Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of ab200833 in LNCaP whole cell lysate. Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 10 seconds

Why choose a recombinant antibody?

Research with confidence
Consistent and reproducible results

Long-term and scalable supply
Recombinant technology

Success from the first experiment
Confirmed specificity

Ethical standards compliant
Animal-free production

Anti-Serine racemase antibody [EPR16682]

(ab200833)

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