abcam

Product datasheet

Anti-Serotonin transporter antibody ab172884

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Overview

Product name	Anti-Serotonin transporter antibody
Description	Rabbit polyclonal to Serotonin transporter
Host species	Rabbit
Tested applications	**Suitable for:** WB
Species reactivity	**Reacts with:** Mouse, Rat **Predicted to work with:** Sheep, Cow, Human, Chimpanzee, Macaque monkey, Gorilla, Orangutan
Immunogen	Synthetic peptide corresponding to Rat Serotonin transporter aa 200-300 conjugated to keyhole limpet haemocyanin. Database link: P31652
Positive control	This antibody gave a positive signal in the following tissue lysates: Mouse Serotinergic Nucleus; Rat Serotinergic Nucleus; Mouse Substantia Nigra; Rat Substantia Nigra; Rat Cerebellum.
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

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 or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.

Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our Abpromise guarantee covers the use of ab172884 in the following tested applications.

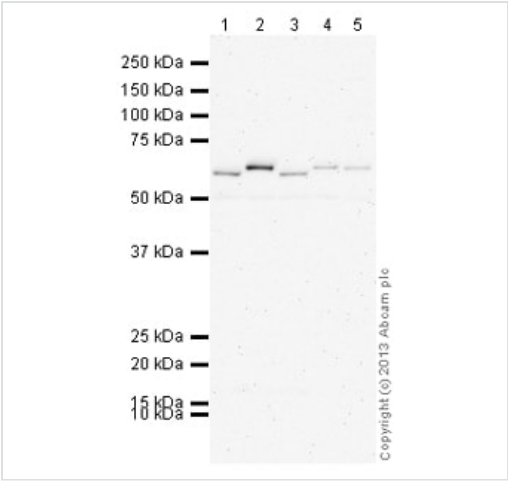
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 1 µg/ml. Detects a band of approximately 60,62 kDa (predicted molecular weight: 70 kDa).

Target

Function	Serotonin transporter whose primary function in the central nervous system involves the regulation of serotonergic signaling via transport of serotonin molecules from the synaptic cleft back into the pre-synaptic terminal for re-utilization. Plays a key role in mediating regulation of the availability of serotonin to other receptors of serotonergic systems. Terminates the action of serotonin and recycles it in a sodium-dependent manner.
Tissue specificity	Expressed in platelets (at protein level).
Sequence similarities	Belongs to the sodium:neurotransmitter symporter (SNF) (TC 2.A.22) family. SLC6A4 subfamily.
Post-translational modifications	Glycosylated; modification with sialylated N-glycans is a requirement for transporters to associate with each other and to function as homooligomeric forms. Phosphorylated at Ser-611, Thr-613 and Thr-616.
Cellular localization	Cell membrane. Endomembrane system. Endosome membrane. Translocates from intracellular locations to the plasma membrane. Density of transporter molecules on the plasma membrane is itself regulated by serotonin.

Images



Western blot - Anti-Serotonin transporter antibody (ab172884)

All lanes : Anti-Serotonin transporter antibody (ab172884) at 1 µg/ml (Milk blocking - 3%)

Lane 1 : Mouse Serotinergic Nucleus Tissue Lysate
Lane 2 : Rat Serotinergic Nucleus Tissue Lysate
Lane 3 : Mouse Substantia Nigra Tissue Lysate
Lane 4 : Rat Substantia Nigra Tissue Lysate
Lane 5 : Cerebellum Rat Tissue Lysate

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/10000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 70 kDa
Observed band size: 60,62 kDa

Exposure time: 16 minutes

This blot was produced using a 4-12% Bis-tris gel under the MOPS buffer system. The gel was run at 200V for 50 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using 3% Milk before being incubated with ab172884 overnight at 4°C. Antibody binding was detected using an anti-rabbit antibody conjugated to HRP, and visualised using ECL development solution.

- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit https://www.abcam.com/abpromise or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors