abcam

Product datasheet

HRP Anti-CNPase antibody [11-5B] ab201678

KO VALIDATED

3 Images

Overview

Product name	HRP Anti-CNPase antibody [11-5B]
Description	HRP Mouse monoclonal [11-5B] to CNPase
Host species	Mouse
Conjugation	HRP
Tested applications	**Suitable for:** WB, IHC-P
Species reactivity	**Reacts with:** Mouse, Rat, Human **Predicted to work with:** Sheep, Rabbit, Cow, Dog, Pig, Rhesus monkey **Does not react with:** Chicken, Guinea pig
Immunogen	Full length native protein (purified) corresponding to Human CNPase.
Positive control	WB: Human, Mouse and Rat Spinal Cord and Brain tissue lysates. IHC-P: FFPE human normal cerebral cortex tissue sections.
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. Stable for 12 months at -20°C. Store In the Dark.
Storage buffer	pH: 7.40 Preservative: 0.1% Proclin 300 Solution Constituents: PBS, 30% Glycerol (glycerin, glycerine), 1% BSA Batches contain 0.4M arginine.

Purity	Affinity purified
Clonality	Monoclonal
Clone number	11-5B
Isotype	IgG1

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab201678 in the following tested applications.

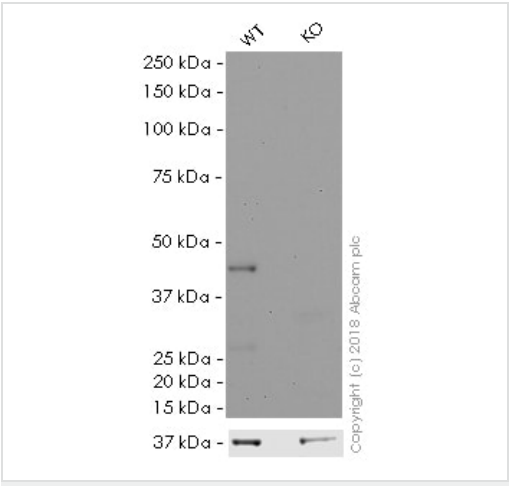
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/5000. Detects a band of approximately 48 kDa (predicted molecular weight: 48 kDa).
IHC-P		1/100. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Target

Sequence similarities	Belongs to the cyclic nucleotide phosphodiesterase family.
Cellular localization	Membrane. Melanosome. Firmly bound to membrane structures of brain white matter. Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

Images



Western blot - HRP Anti-CNPase antibody [11-5B] (ab201678)

All lanes : HRP Anti-CNPase antibody [11-5B] (ab201678) at 1/5000 dilution

Lane 1 : Wild-type HAP1 whole cell lysate
Lane 2 : CNPase knockout HAP1 whole cell lysate

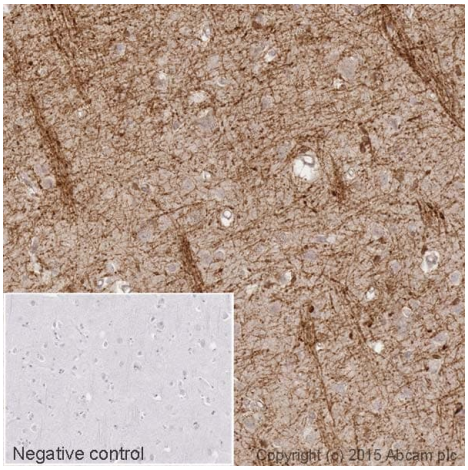
Lysates/proteins at 20 µg per lane.

Predicted band size: 48 kDa
Observed band size: 48 kDa

Exposure time: 20 minutes

ab201678 was shown to specifically react with CNPase in wild-type HAP1 cells as signal was lost in CNPase knockout cells. Wild-type and CNPase knockout samples were subjected to SDS-PAGE.

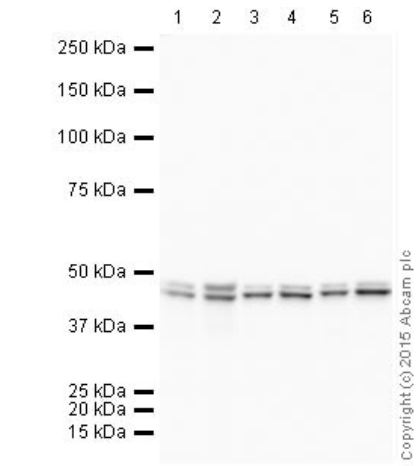
Ab201678 and **ab184095** (Mouse monoclonal [mAbcam 9484] to GAPDH - Loading Control (Alexa Fluor® 680) loading control) were incubated overnight at 4°C at 1/5000 dilution and 1/1000 dilution respectively. The loading control was imaged using the Licor Odyssey CLx prior to blots being developed with ECL technique.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - HRP Anti-CNPase antibody [11-5B] (ab201678)

IHC image of CNPase staining in a section of formalin-fixed paraffin-embedded human normal cerebral cortex*. The section was pre-treated using pressure cooker heat mediated antigen retrieval with sodium citrate buffer (pH6) for 30mins, and incubated overnight at +4°C with ab201678 at 1/100 dilution. DAB was used as the chromogen (**ab103723**), diluted 1/100 and incubated for 10min at room temperature. The section was counterstained with haematoxylin and mounted with DPX. The inset negative control image is taken from an identical assay without primary antibody.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.



Western blot - HRP Anti-CNPase antibody [11-5B] (ab201678)

All lanes : HRP Anti-CNPase antibody [11-5B] (ab201678) at 1/5000 dilution

Lane 1 : Brain (Human) Tissue Lysate - adult normal tissue
Lane 2 : Spinal Cord (Human) Tissue Lysate - adult normal tissue
Lane 3 : Brain (Mouse) Tissue Lysate
Lane 4 : Spinal Cord (Mouse) Tissue Lysate
Lane 5 : Brain (Rat) Tissue Lysate
Lane 6 : Spinal Cord (Rat) Tissue Lysate

Lysates/proteins at 10 µg per lane.

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 48 kDa
Observed band size: 48 kDa

Exposure time: 6 seconds

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 2% Bovine Serum Albumin before being incubated with ab201678 overnight at 4°C. Antibody binding was visualised using ECL development solution **ab133406**.

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