abcam

Product datasheet

Anti-NNT antibody [8B4BB10] ab110352

★★★★☆ **2 Abreviews**   **6 References**   5 Images

Overview

Product name	Anti-NNT antibody [8B4BB10]
Description	Mouse monoclonal [8B4BB10] to NNT
Host species	Mouse
Specificity	Several customers have found that this antibody may not work well for mouse and rat samples.
Tested applications	**Suitable for:** IP, ICC/IF, IHC-P, WB, Flow Cyt
Species reactivity	**Reacts with:** Mouse, Rat, Cow, Human
Immunogen	Tissue, cells or virus. This information is proprietary to Abcam and/or its suppliers.
Positive control	Normal Human skin fibroblasts (strain HDFn); Human cerebellum tissue; mitochondria from Human liver, Bovine heart, Rat liver and Mouse liver; HepG2 and HL-60 cells.
General notes	This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact **orders@abcam.com**.
	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
	Product was previously marketed under the MitoSciences sub-brand.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.5 Preservative: 0.02% Sodium azide Constituent: HEPES buffered saline
Purity	Proprietary Purification
Purification notes	Produced in vitro using hybridomas grown in serum-free medium, and then purified by biochemical fractionation. Purity >95% by SDS-PAGE.

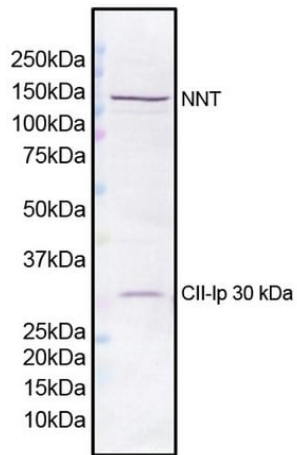|	
Clonality	Monoclonal
Clone number	8B4BB10
Isotype	IgG1
Light chain type	kappa

Applications

The Abpromise guarantee   Our **Abpromise guarantee** covers the use of ab110352 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
IP		Use at an assay dependent concentration.
ICC/IF		Use a concentration of 5 µg/ml.
IHC-P		1/100. Perform heat mediated antigen retrieval via the pressure cooker method before commencing with IHC staining protocol.
WB	★★★★☆ (1)	Use a concentration of 0.5 µg/ml. Predicted molecular weight: 114 kDa.
Flow Cyt		Use a concentration of 1 µg/ml. **ab170190** - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

Target

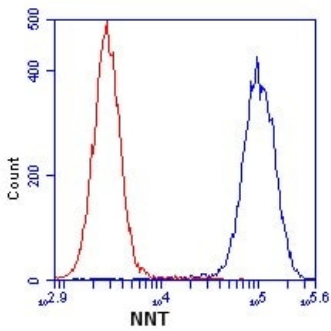|	
Function	The transhydrogenation between NADH and NADP is coupled to respiration and ATP hydrolysis and functions as a proton pump across the membrane.
Sequence similarities	In the N-terminal section; belongs to the AlaDH/PNT family. In the C-terminal section; belongs to the PNT beta subunit family.
Cellular localization	Mitochondrion inner membrane.

Images

Western blot - Anti-NNT antibody [8B4BB10] (ab110352)

Anti-NNT antibody [8B4BB10] (ab110352) at 0.5 µg/ml + HepG2 whole cell lysate
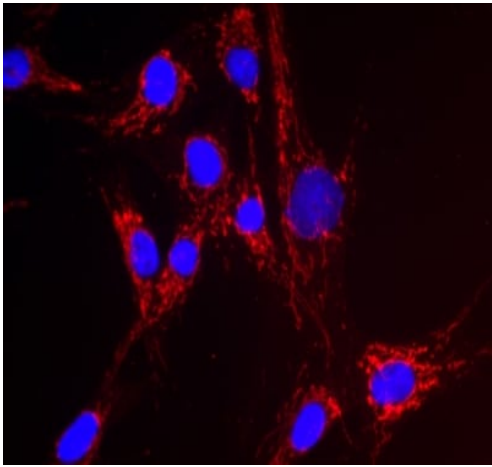
Predicted band size: 114 kDa

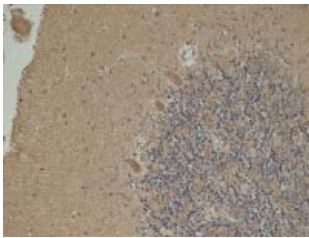anti-Complex II 30kDa subunit has also been labeled as a control.

Flow Cytometry - Anti-NNT antibody [8B4BB10] (ab110352)

HL-60 cells were stained with 1 µg/mL NNT antibody (ab110352) (blue) or an equal amount of an isotype control antibody (red) and analyzed by flow cytometry.

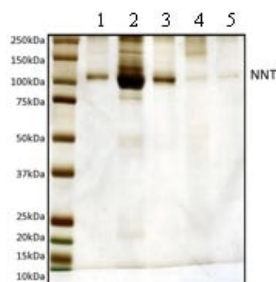Mitochondrial localization of NNT in cultured, normal Human skin fibroblasts (strain HDFn) labeled with anti NNT (ab110352) as the primary antibody and an AlexaFluor® 594 goat anti-mouse IgG1 secondary antibody.

Immunocytochemistry/ Immunofluorescence - Anti-NNT antibody [8B4BB10] (ab110352)

NNT immunohistochemistry in Human cerebellum visualized with ab110352 at 1/100. NNT immunoactivity is most intense in neuronal cell bodies, most notably in the large Purkinje cells.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NNT antibody [8B4BB10] (ab110352)

Nicotinamide nucleotide transhydrogenase (NNT) immunocaptured from Human liver mitochondria (lane 1), bovine heart mitochondria (lane 2), rat liver mitochondria (lane 3), mouse liver mitochondria (lane 4), and HepG2 cells (lane 5), using ab110352.

Immunoprecipitation - Anti-NNT antibody [8B4BB10] (ab110352)

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