abcam

Product datasheet

Anti-Neurofibromin antibody ab17963

★★★★★ 5 Abreviews 11 References 2 Images

Overview

Product name	Anti-Neurofibromin antibody
Description	Rabbit polyclonal to Neurofibromin
Host species	Rabbit
Tested applications	**Suitable for:** WB, IP
Species reactivity	**Reacts with:** Mouse, Human **Predicted to work with:** Rat, Rabbit, Horse, Cow, Chimpanzee, Ferret, Rhesus monkey, Gorilla, Orangutan, Elephant
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HeLa, 293T, TCMK-1 and NIH3T3 whole cell lysates. IP: HeLa whole cell lysate.
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. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 7 Preservative: 0.1% Sodium azide Constituents: 0.021% PBS, 1.764% Sodium citrate, 1.815% Tris
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab17963 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	★★★★★ (4)	1/1000 - 1/10000. Predicted molecular weight: 319 kDa.
IP		Use a concentration of 2 - 10 µg/ml.

Target

Function

Stimulates the GTPase activity of Ras. NF1 shows greater affinity for Ras GAP, but lower specific activity. May be a regulator of Ras activity.

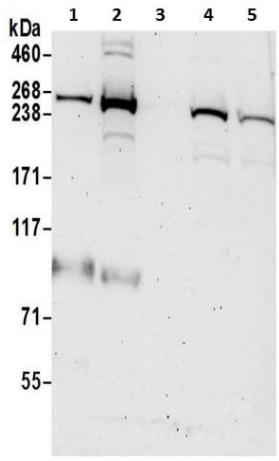
Involvement in disease

Defects in NF1 are the cause of neurofibromatosis type 1 (NF1) [MIM:162200]; also known as von Recklinghausen syndrome. A disease characterized by patches of skin pigmentation (cafe-au-lait spots), Lisch nodules of the iris, tumors in the peripheral nervous system and fibromatous skin tumors. Individuals with the disorder have increased susceptibility to the development of benign and malignant tumors.
Defects in NF1 are a cause of juvenile myelomonocytic leukemia (JMML) [MIM:607785]. JMML is a pediatric myelodysplastic syndrome that constitutes approximately 30% of childhood cases of myelodysplastic syndrome (MDS) and 2% of leukemia. Germline mutations of NF1 account for the association of JMML with type 1 neurofibromatosis (NF1).
Defects in NF1 are the cause of Watson syndrome (WS) [MIM:193520]. WS is characterized by the presence of pulmonary stenosis, cafe-au-lait spots, and mental retardation. WS is considered as an atypical form of NF1.
Defects in NF1 are a cause of familial spinal neurofibromatosis (FSNF) [MIM:162210]. Familial spinal NF is considered to be an alternative form of neurofibromatosis, showing multiple spinal tumors.
Defects in NF1 are a cause of neurofibromatosis-Noonan syndrome (NFNS) [MIM:601321]. NFNS is characterized by manifestations of both NF1 and Noonan syndrome (NS). NS is a disorder characterized by dysmorphic facial features, short stature, hypertelorism, cardiac anomalies, deafness, motor delay, and a bleeding diathesis.
Defects in NF1 may be a cause of colorectal cancer (CRC) [MIM:114500].

Sequence similarities

Contains 1 CRAL-TRIO domain.
Contains 1 Ras-GAP domain.

Images



Western blot - Anti-Neurofibromin antibody (ab17963)

All lanes : Anti-Neurofibromin antibody (ab17963) at 0.1 µg/ml

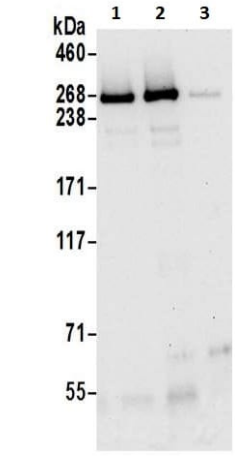
Lane 1 : HeLa whole cell lysate in NETN lysis buffer
Lane 2 : 293T whole cell lysate in NETN lysis buffer
Lane 3 : Jurkat whole cell lysate in NETN lysis buffer
Lane 4 : TCMK-1 whole cell lysate in NETN lysis buffer
Lane 5 : NIH3T3 whole cell lysate in NETN lysis buffer

Lysates/proteins at 50 µg per lane.

Developed using the ECL technique.

Predicted band size: 319 kDa

Exposure time: 75 seconds



Immunoprecipitation - Anti-Neurofibromin antibody (ab17963)

Whole cell lysate (0.5-1.0mg per IP reaction; 20% of IP loaded) from HeLa cells prepared using NETN lysis buffer.

Lane 1: IP using rabbit anti-Neurofibromin antibody.
Lane 2: IP using ab17963 at 6 µg per reaction.
Lane 3: Control IgG.

For western blotting, ab17963 was used at 1 µg/ml.

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