abcam

Product datasheet

Anti-FGD4 antibody ab97785

2 References 3 Images

Overview

Product name	Anti-FGD4 antibody
Description	Rabbit polyclonal to FGD4
Host species	Rabbit
Tested applications	**Suitable for:** WB, IHC-P, ICC/IF
Species reactivity	**Reacts with:** Human
Immunogen	Recombinant fragment, corresponding to a sequence within amino acids 49-297 of Human FGD4 (NP_640334).
Positive control	293T, A431, H1299, HeLa, HepG2, MOLT4 and Raji whole cell lysates; HeLa cells; SG xenograft tissue.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	pH: 7.00 Preservative: 0.01% Thimerosal (merthiolate) Constituents: 10% Glycerol, 1.21% Tris, 0.75% Glycine
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab97785** in the following tested applications.

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

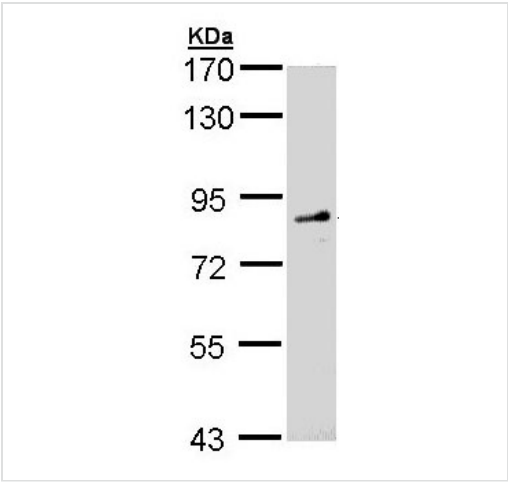
Application	Abreviews	Notes
WB		1/500 - 1/3000. Predicted molecular weight: 87 kDa.

Application	Abreviews	Notes
IHC-P		Use at an assay dependent concentration.
ICC/IF		1/100 - 1/200.

Target

Function	Activates CDC42, a member of the Ras-like family of Rho-and Rac proteins, by exchanging bound GDP for free GTP. Plays a role in regulating the actin cytoskeleton and cell shape. Activates MAPK8.
Tissue specificity	Expressed in different tissues, including brain, cerebellum, peripheral nerve, skeletal muscle, heart, uterus, placenta and testis.
Involvement in disease	Charcot-Marie-Tooth disease 4H (CMT4H) [MIM:609311]: A recessive demyelinating form of Charcot-Marie-Tooth disease, a disorder of the peripheral nervous system, characterized by progressive weakness and atrophy, initially of the peroneal muscles and later of the distal muscles of the arms. Charcot-Marie-Tooth disease is classified in two main groups on the basis of electrophysiologic properties and histopathology: primary peripheral demyelinating neuropathies (designated CMT1 when they are dominantly inherited) and primary peripheral axonal neuropathies (CMT2). Demyelinating neuropathies are characterized by severely reduced nerve conduction velocities (less than 38 m/sec), segmental demyelination and remyelination with onion bulb formations on nerve biopsy, slowly progressive distal muscle atrophy and weakness, absent deep tendon reflexes, and hollow feet. By convention autosomal recessive forms of demyelinating Charcot-Marie-Tooth disease are designated CMT4. Note=The disease is caused by mutations affecting the gene represented in this entry.
Sequence similarities	Contains 1 DH (DBL-homology) domain. Contains 1 FYVE-type zinc finger. Contains 2 PH domains.
Domain	The part of the protein spanning the actin filament-binding domain together with the DH domain and the first PH domain is necessary and sufficient for microspike formation. Activation of MAPK8 requires the presence of all domains with the exception of the actin filament-binding domain.
Cellular localization	Cytoplasm > cytoskeleton. Cell projection > filopodium. Concentrated in filopodia and poorly detected at lamellipodia. Binds along the sides of actin fibers.

Images

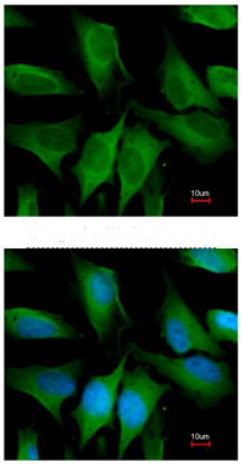


Western blot - Anti-FGD4 antibody (ab97785)

Anti-FGD4 antibody (ab97785) at 1/1000 dilution + MOLT4 whole cell lysate at 30 µg

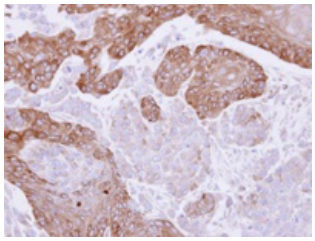
Predicted band size: 87 kDa

7.5% SDS-PAGE.



Immunocytochemistry/ Immunofluorescence - Anti-FGD4 antibody (ab97785)

ab97785 at 1/200 dilution staining FGD4 in HeLa cells by Immunofluorescence, Paraformaldehyde fixed. Lower image is merged with DNA probe.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FGD4 antibody (ab97785)

ab97785 at 1/100 dilution staining FGD4 in SG xenograft by Immunohistochemistry, Paraffin-embedded tissue.

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