abcam

Product datasheet

Anti-JPH3 antibody ab79063

2 Images

Overview

Product name	Anti-JPH3 antibody
Description	Rabbit polyclonal to JPH3
Host species	Rabbit
Tested applications	**Suitable for:** ICC/IF, WB, ELISA
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	A synthetic 18 amino acid peptide near the carboxy terminus of human JPH3 (protein accession number: NP_065706)
Positive control	Daudi cell lysate

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C.
Storage buffer	Preservative: 0.02% Sodium Azide Constituents: PBS
Purity	Immunogen affinity purified
Purification notes	Affinity chromatography purified via peptide column
Clonality	Polyclonal
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab79063** 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
ICC/IF		Use a concentration of 20 µg/ml.
WB		Use a concentration of 1 - 2 µg/ml. Predicted molecular weight: 81 kDa.

Application	Abreviews	Notes
ELISA		Use at an assay dependent dilution.

Target

Function
Contributes to the stabilization of the junctional membrane complexes, which are common to excitable cells and mediate cross-talk between cell surface and intracellular ion channels. Probably acts by anchoring the plasma membrane and endoplasmic reticulum. May play an active role in certain neurons involved in motor coordination.

Tissue specificity
Specifically expressed in brain.

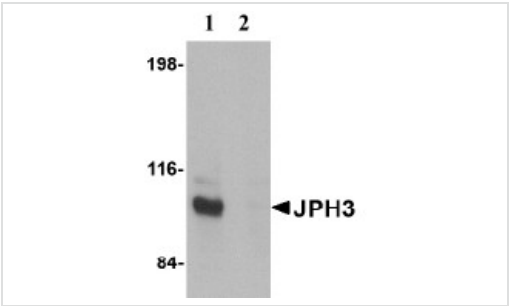
Involvement in disease
Defects in JPH3 are the cause of Huntington disease-like type 2 (HDL2) [MIM:606438]. Huntington disease (HD) is a neurodegenerative disorder resulting primarily from the loss of medium spiny projection neurons in the striatum, especially in the caudate nucleus, and, to a lesser extent, atrophy of mesencephalic and cortical structures. The typical clinical picture of HD combines familial adult onset chorea and subcortical dementia that usually begin during the fourth decade of life.

Sequence similarities
Belongs to the junctophilin family.
Contains 8 MORN repeats.

Domain
The MORN (membrane occupation and recognition nexus) repeats contribute to the plasma membrane binding, possibly by interacting with phospholipids.

Cellular localization
Cell membrane. Endoplasmic reticulum membrane. Localized predominantly on the plasma membrane. The transmembrane domain is anchored in endoplasmic reticulum membrane, while the N-terminal part associates with the plasma membrane.

Images



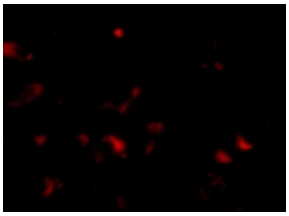
Western blot - Anti-JPH3 antibody (ab79063)

All lanes : Anti-JPH3 antibody (ab79063) at 1 µg/ml

Lane 1 : Daudi cell lysate
Lane 2 : Daudi cell lysate with blocking peptide

Lysates/proteins at 15 µg per lane.

Predicted band size: 81 kDa
Observed band size: 100 kDa



Immunocytochemistry/ Immunofluorescence - Anti-JPH3 antibody (ab79063)

Immunofluorescence of JPH3 in Human Brain cells using ab79063 at 20 ug/ml.

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