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Product datasheet

Anti-MPV17 antibody ab236746

2 Images

Overview

Product name	Anti-MPV17 antibody
Description	Rabbit polyclonal to MPV17
Host species	Rabbit
Tested applications	**Suitable for:** ICC/IF, WB
Species reactivity	**Reacts with:** Mouse, Human **Predicted to work with:** Rat, Cow
Immunogen	Recombinant full length protein corresponding to Human MPV17 aa 1-176. Sequence: MALWRAYQRALAAHPWKVQVLTAGSLMGLGDIISQQL VERRGLQEHQRGR TLTMVSLGCGFVGPVVGGWYKVLDRFIPGTTKVDALK KMLLDQGGFAPCF LGCFLPLVGALNGLSAQDNWAKLQRDYPDALITNYYL WPAVQLANFYLVP LHYRLAVVQCVAVIWNSYLSWKAHRL Database link: P39210 Run BLAST with Run BLAST with
Positive control	WB: Mouse heart tissue lysate. ICC/IF: HeLa cells.

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 long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.03% Proclin Constituents: 50% Glycerol, PBS
Purity	Protein G purified
Purification notes	Purity >95%
Clonality	Polyclonal

Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab236746** in the following tested applications.

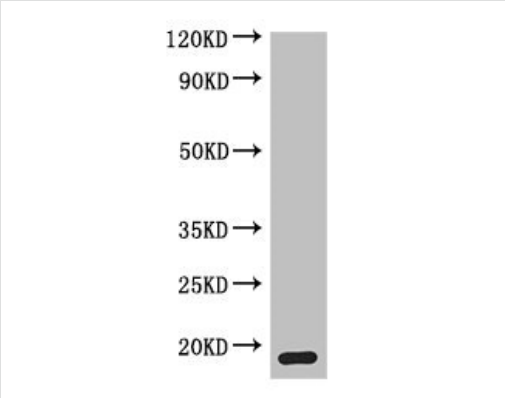
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		1/50 - 1/200.
WB		1/1000 - 1/5000. Predicted molecular weight: 20 kDa.

Target

Function	Involved in mitochondria homeostasis. May be involved in the metabolism of reactive oxygen species and control of oxidative phosphorylation and mitochondrial DNA (mtDNA) maintenance.
Tissue specificity	Ubiquitous. Expressed in pancreas, kidney, muscle, liver, lung, placenta, brain and heart.
Involvement in disease	Defects in MPV17 are a cause of hepatocerebral mitochondrial DNA depletion syndrome (MDS) [MIM:251880]. MDS is a clinically heterogeneous group of disorders characterized by a reduction in mitochondrial DNA (mtDNA) copy number. Primary mtDNA depletion is inherited as an autosomal recessive trait and may affect single organs, typically muscle or liver, or multiple tissues. Individuals with the hepatocerebral form of mitochondrial DNA depletion syndrome have early progressive liver failure and neurologic abnormalities, hypoglycemia, and increased lactate in body fluids. Defects in MPV17 are the cause of Navajo neurohepatopathy (NN) [MIM:256810]. NN is an autosomal recessive disease that is prevalent among Navajo children in the southwestern United States. The major clinical features are hepatopathy, peripheral neuropathy, corneal anesthesia and scarring, acral mutilation, cerebral leukoencephalopathy, failure to thrive, and recurrent metabolic acidosis with intercurrent infections. Infantile, childhood, and classic forms of NN have been described. Mitochondrial DNA depletion was detected in the livers of patients, suggesting a primary defect in mtDNA maintenance.
Sequence similarities	Belongs to the peroxisomal membrane protein PXMP2/4 family.
Cellular localization	Mitochondrion inner membrane.

Images



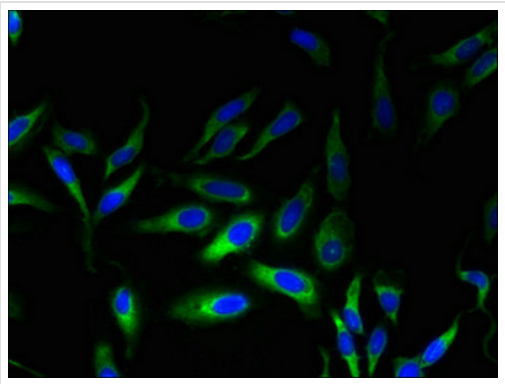
Western blot - Anti-MPV17 antibody (ab236746)

Anti-MPV17 antibody (ab236746) at 1/1000 dilution + Mouse heart tissue lysate

Secondary

Goat polyclonal to rabbit IgG at 1/10000 dilution

Predicted band size: 20 kDa



Immunocytochemistry/ Immunofluorescence - Anti-MPV17 antibody (ab236746)

HeLa (Human epithelial cell line from cervix adenocarcinoma) cells stained for MPV17 (green) using ab236746 at 1/100 dilution in ICC/IF. Secondary antibody is an Alexa-Fluor® 488-conjugated Goat Anti-Rabbit IgG (H+L).

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