Datasheet for ABIN6146480

anti-PTRH2 antibody (AA 40-179)

4 Images

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Overview

Quantity:	100 µL
Target:	PTRH2
Binding Specificity:	AA 40-179
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PTRH2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 40-179 of human PTRH2 (NP_057161.1).
Sequence:	LPKSKTSKTH TDTESEASIL GDSGEYKMIL VVRNDLKMGK GKVAAQCSHA AVSAYKQIQR RNPEMLKQWE YCGQPKVVVK APDEETLIAL LAHAKMLGLT VSLIQDAGRT QIAPGSQTVL GIGPGPADLI DKVTGHLKLY
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies

Target Details

Target:	PTRH2

Target Details

Alternative Name:	PTRH2 (PTRH2 Products)
Background:	The protein encoded by this gene is a mitochondrial protein with two putative domains, an N-terminal mitochondrial localization sequence, and a UPF0099 domain. In vitro assays suggest that this protein possesses peptidyl-tRNA hydrolase activity, to release the peptidyl moiety from tRNA, thereby preventing the accumulation of dissociated peptidyl-tRNA that could reduce the efficiency of translation. This protein also plays a role regulating cell survival and death. It promotes survival as part of an integrin-signaling pathway for cells attached to the extracellular matrix (ECM), but also promotes apoptosis in cells that have lost their attachment to the ECM, a process called anoikos. After loss of cell attachment to the ECM, this protein is phosphorylated, is released from the mitochondria into the cytosol, and promotes caspase-independent apoptosis through interactions with transcriptional regulators. This gene has been implicated in the development and progression of tumors, and mutations in this gene have been associated with an infantile multisystem neurologic, endocrine, and pancreatic disease (INMEPD) characterized by intellectual disability, postnatal microcephaly, progressive cerebellar atrophy, hearing impairment, polyneuropathy, failure to thrive, and organ fibrosis with exocrine pancreas insufficiency (PMID: 25574476). Alternative splicing results in multiple transcript variants encoding different isoforms.,PTRH2,BIT1,CFAP37,CGI-147,IMNEPD,PTH,PTH 2,PTH2,Epigenetics & Nuclear Signaling,Cell Biology & Developmental Biology,Apoptosis,Cell Cycle,Endocrine & Metabolism,Mitochondrial metabolism,Mitochondrial markers,PTRH2
Molecular Weight:	19 kDa
Gene ID:	51651
UniProt:	Q9Y3E5

Application Details

Application Notes:	WB,1:500 - 1:2000,IHC,1:50 - 1:200,IF,1:10 - 1:100
Comment:	HIGH QUALITY
Restrictions:	For Research Use only

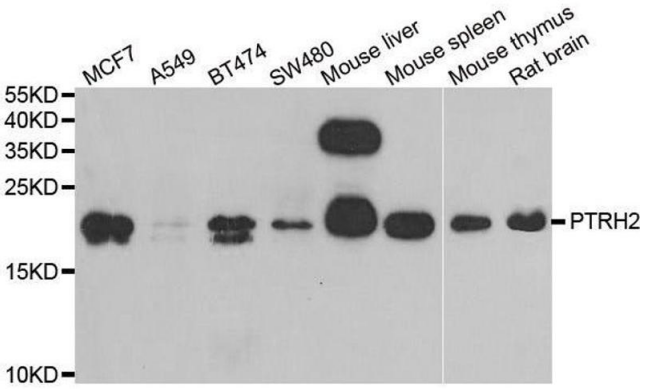
Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide

Handling

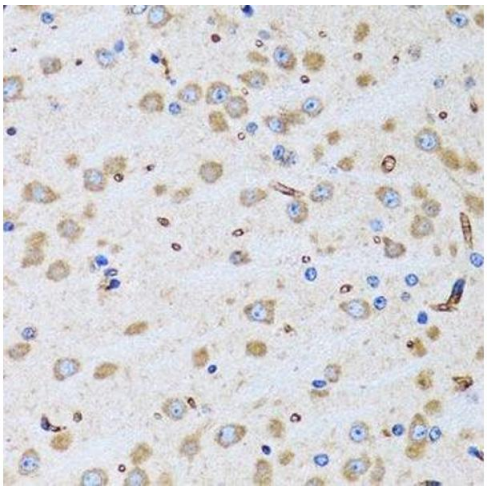
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

Images



Western Blotting

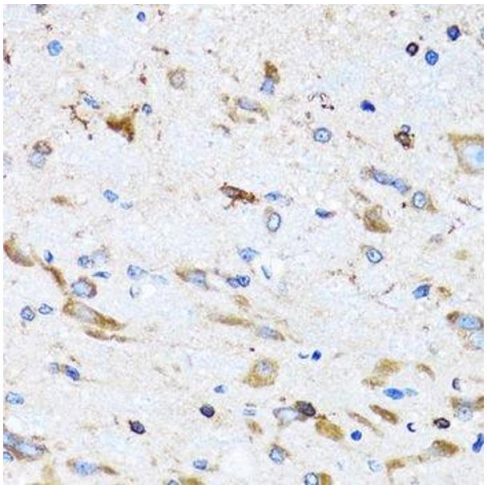
Image 1. Western blot analysis of extracts of various cell lines, using PTRH2 antibody.



Immunohistochemistry (Paraffin-embedded Sections)

Image 2. Immunohistochemistry of paraffin-embedded rat brain using PTRH2 antibody.

Images



Immunohistochemistry (Paraffin-embedded Sections)

Image 3. Immunohistochemistry of paraffin-embedded mouse spinal cord using PTRH2 antibody.

Please check the product details page for more images. Overall 4 images are available for ABIN6146480.