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Datasheet for ABIN1724901

anti-PTP4A2 antibody (AA 58-162)

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Overview

Quantity:	0.1 mg
Target:	PTP4A2
Binding Specificity:	AA 58-162
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This PTP4A2 antibody is un-conjugated
Application:	ELISA, Western Blotting (WB)

Product Details

Immunogen:	Purified recombinant fragment of human PTP4A2 (AA: 58-162) expressed in E. coli.
Clone:	5B6F4
Isotype:	IgG2b
Purification:	purified

Target Details

Target:	PTP4A2
Alternative Name:	PTP4A2 (PTP4A2 Products)
Background:	Description: The protein encoded by this gene belongs to a small class of the protein tyrosine phosphatase (PTP) family. PTPs are cell signaling molecules that play regulatory roles in a

Target Details

variety of cellular processes. PTPs in this class contain a protein tyrosine phosphatase catalytic domain and a characteristic C-terminal prenylation motif. This PTP has been shown to primarily associate with plasmic and endosomal membrane through its C-terminal prenylation. This PTP was found to interact with the beta-subunit of Rab geranylgeranyltransferase II (beta GGT II), and thus may function as a regulator of GGT II activity. Overexpression of this gene in mammalian cells conferred a transformed phenotype, which suggested its role in tumorigenesis. Alternatively spliced transcript variants have been described. Related pseudogenes exist on chromosomes 11, 12 and 17. ,

Aliases: HH13, OV-1, PRL2, HH7-2, PRL-2, PTP4A, HU-PP-1, PTPCAAX2, ptp-IV1a, ptp-IV1b

Molecular Weight: 19.1 kDa

Gene ID: 8073

HGNC: 8073

Application Details

Application Notes: ELISA: 1:10000, WB: 1:500 - 1:2000

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Purified antibody in PBS with 0.05 % sodium azide

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C/-20 °C

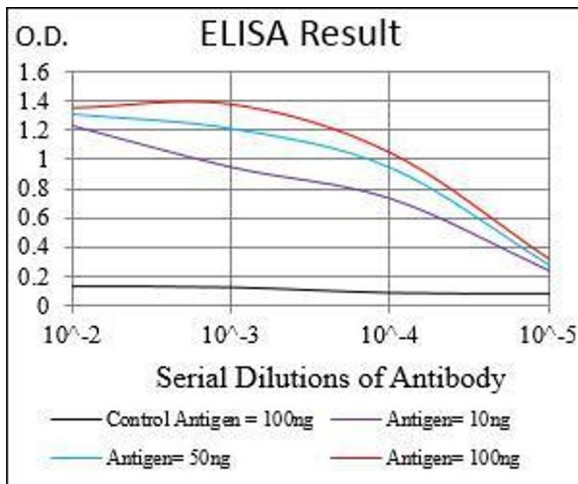
Storage Comment: 4°C, -20°C for long term storage

Publications

Product cited in: Zuhlke, Johnson, Okoth, Stoffel, Robbins, Tembe, Salinas, Zheng, Xu, Carpten, Lange, Isaacs, Cooney: "Identification of a novel NBN truncating mutation in a family with hereditary prostate cancer." in: **Familial cancer**, Vol. 11, Issue 4, pp. 595-600, (2012) ([PubMed](#)).

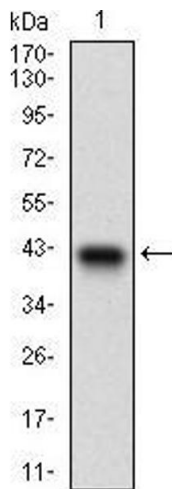
Zheng, Zhang, Jiang, You, Liu, Lu, Zhou: "Functional NBS1 polymorphism is associated with occurrence and advanced disease status of nasopharyngeal carcinoma." in: **Molecular carcinogenesis**, Vol. 50, Issue 9, pp. 689-96, (2011) ([PubMed](#)).

Images



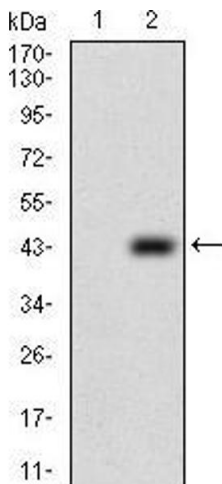
ELISA

Image 1. Black line: Control Antigen (100 ng), Purple line: Antigen(10 ng), Blue line: Antigen (50 ng), Red line: Antigen (100 ng),



Western Blotting

Image 2. Western blot analysis using PTP4A2 mAb against human PTP4A2 recombinant protein. (Expected MW is 37.5 kDa)



Western Blotting

Image 3. Western blot analysis using PTP4A2 mAb against HEK293 (1) and PTP4A2 (AA: 58-162)-hlgGFc transfected HEK293 (2) cell lysate.