

ARG59224 anti-PTP4A2 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes PTP4A2
Tested Reactivity	Hu, Ms, Rat
Predict Reactivity	Hm
Tested Application	FACS, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	PTP4A2
Species	Human
Immunogen	Synthetic peptide corresponding to aa. 40-69 of Human PTP4A2. (TTLVRVCDATYDKAPVEKEGIHVLDWPFDD)
Conjugation	Un-conjugated
Alternate Names	OV-1; Protein-tyrosine phosphatase of regenerating liver 2; PTP4A; Protein tyrosine phosphatase type IVA 2; PTPCAAX2; PRL2; ptp-IV1b; ptp-IV1a; CAAXII; PRL-2; HH13; Protein-tyrosine phosphatase 4a2; EC 3.1.3.48; HU-PP-1; PTP; HH7-2

Application Instructions

Application table	Application	Dilution
	FACS	1 - 3 µg/10 ⁶ cells
	IHC-P	0.5 - 1 µg/ml
	WB	0.1 - 0.5 µg/ml
	Application Note	IHC-P: Antigen Retrieval: Heat mediated was performed in Citrate buffer (pH 6.0) for 20 min. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

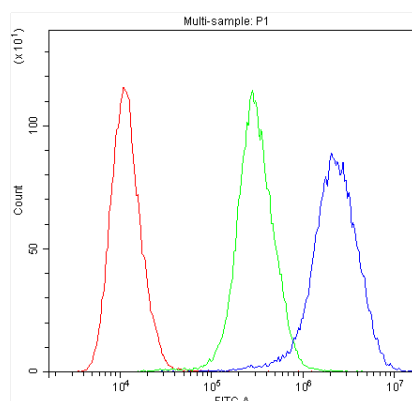
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.9% NaCl, 0.2% Na ₂ HPO ₄ , 0.05% Sodium azide and 5% BSA.
Preservative	0.05% Sodium azide
Stabilizer	5% BSA
Concentration	0.5 mg/ml

Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

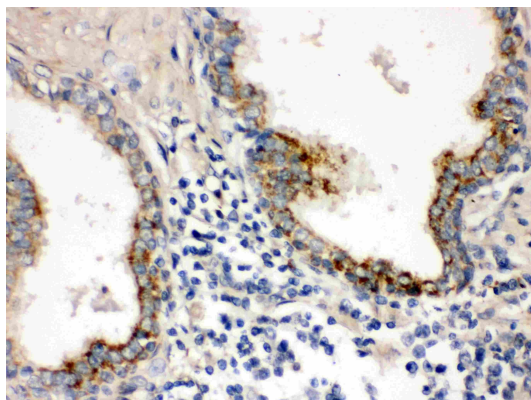
Gene Symbol	PTP4A2
Gene Full Name	protein tyrosine phosphatase type IVA, member 2
Background	The protein encoded by this gene belongs to a small class of the protein tyrosine phosphatase (PTP) family. PTPs are cell signaling molecules that play regulatory roles in a variety of cellular processes. PTPs 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. [provided by RefSeq, Aug 2010]
Function	Protein tyrosine phosphatase which stimulates progression from G1 into S phase during mitosis. Promotes tumors. Inhibits geranylgeranyl transferase type II activity by blocking the association between RABGGTA and RABGGTB. [UniProt]
Calculated Mw	19 kDa
PTM	Farnesylated. Farnesylation is required for membrane targeting and for interaction with RABGGTB. Unfarnesylated forms are redirected to the nucleus and cytosol. [UniProt]
Cellular Localization	Cell membrane. Early endosome. Cytoplasm. [UniProt]

Images



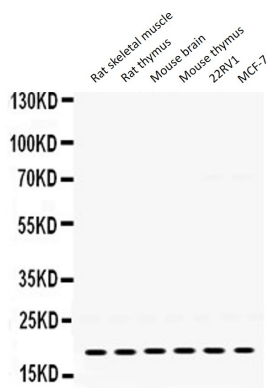
ARG59224 anti-PTP4A2 antibody FACS image

Flow Cytometry: U937 cells were blocked with 10% normal goat serum and then stained with ARG59224 anti-PTP4A2 antibody (blue) at 1 ug/10⁶ cells for 30 min at 20°C, followed by DyLight®488 labelled secondary antibody. Isotype control antibody (green) was rabbit IgG (1 ug/10⁶ cells) used under the same conditions. Unlabelled sample (red) was also used as a control.



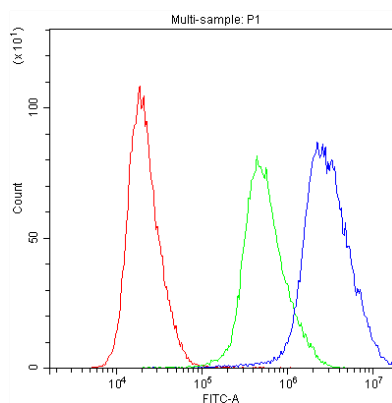
ARG59224 anti-PTP4A2 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human prostatic cancer Tissue. Antigen Retrieval: Heat mediated was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG59224 anti-PTP4A2 antibody at 1 µg/ml dilution, overnight at 4°C.



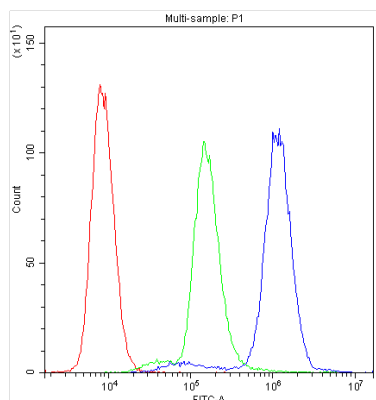
ARG59224 anti-PTP4A2 antibody WB image

Western blot: 50 µg of samples under reducing conditions. Rat skeletal muscle, Rat thymus, Mouse brain, Mouse thymus, 22RV1 and MCF-7 whole cell lysates stained with ARG59224 anti-PTP4A2 antibody at 0.5 µg/ml, overnight at 4°C.



ARG59224 anti-PTP4A2 antibody FACS image

Flow Cytometry: PC-3 cells were blocked with 10% normal goat serum and then stained with ARG59224 anti-PTP4A2 antibody (blue) at 1 µg/10⁶ cells for 30 min at 20°C, followed by DyLight[®]488 labelled secondary antibody. Isotype control antibody (green) was rabbit IgG (1 µg/10⁶ cells) used under the same conditions. Unlabelled sample (red) was also used as a control.



ARG59224 anti-PTP4A2 antibody FACS image

Flow Cytometry: A431 cells were blocked with 10% normal goat serum and then stained with ARG59224 anti-PTP4A2 antibody (blue) at 1 µg/10⁶ cells for 30 min at 20°C, followed by DyLight[®]488 labelled secondary antibody. Isotype control antibody (green) was rabbit IgG (1 µg/10⁶ cells) used under the same conditions. Unlabelled sample (red) was also used as a control.