

Product datasheet for PH309983

PTP4A2 (NM_080391) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	PTP4A2 MS Standard C13 and N15-labeled recombinant protein (NP_536316)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC209983
Predicted MW:	19.1 kDa
Protein Sequence:	>RC209983 protein sequence Red=Cloning site Green=Tags(s) MNRPAPVEISYENMRFLITHNPTNATLNKFTTEELKKYGVTTLVRVCDATYDKAPVEKEGIHVLDPFDDG APPPNQIVDDWLNLLKTKFREEPGCCVAVHCVAGLGRAPVLVALALIECGMKYEDAVQFIRQKRRGAFNS KQLLYLEKYRPMRLRFRDTNGHCCVQ TRTRPLEQKLI SEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_536316
RefSeq Size:	3939
RefSeq ORF:	501
Synonyms:	HH7-2; HH13; HU-PP-1; OV-1; PRL-2; PRL2; ptp-IV1a; ptp-IV1b; PTP4A; PTPCAAX2
Locus ID:	8073
UniProt ID:	Q12974



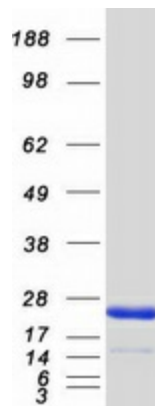
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Cytogenetics: 1p35.2

Summary: 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]

Protein Families: Druggable Genome, Phosphatase

Product images:



Coomassie blue staining of purified PTP4A2 protein (Cat# [TP309983]). The protein was produced from HEK293T cells transfected with PTP4A2 cDNA clone (Cat# [RC209983]) using MegaTran 2.0 (Cat# [TT210002]).