

Product datasheet for PH310562

Acid Phosphatase 2 (ACP2) (NM_001610) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	ACP2 MS Standard C13 and N15-labeled recombinant protein (NP_001601)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC210562
Predicted MW:	44.45 kDa
Protein Sequence:	>RC210562 representing NM_001610 Red=Cloning site Green=Tags(s)
	MAGKRXXGWSRAALLQLLLGVNLVVMPPTRARSLRFVTLLYRHGDRSPVKTYPKDPYQEEWPQGFQGLT KEGMLQHWELGQALRQRYHGFLNTSYHRQEVYVSRSTDFDRTLMSAEANLAGLFPPNGMQRFNPNI PVHTVPI TEDRLKFKPLGPCPRYEQLNQNETRQTPEYQNESSRNAQFLDMVANETGLTDLTLETVWVYDT LFCEQTHGLRLLPPWASPQTMQRLSRLKDFSFRFLFGIYQQAQKARLQGGVLLAQIRKNLTL MATTSQLPKLLVYSAHD TTLVALQMALDVYNGEQAPYASCHIFELYQEDSGNFSVEMYFRNESDKAPWPLSLPGCPHRC PLQDFLRLTEPVVPKDWQEQCLASGPADTEVIVALAVCGSILFLLIVLLLTVLFRMQAQP PGYRHHVADGEDHA
	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- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-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:	<u>NP_001601</u>
RefSeq Size:	2218
RefSeq ORF:	1270
Synonyms:	LAP



[View online »](#)

Locus ID: 53

UniProt ID: [P11117](#)

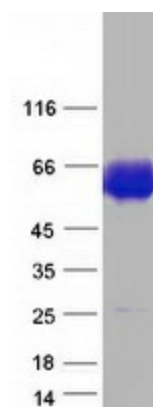
Cytogenetics: 11p11.2|11p12-p11

Summary: The protein encoded by this gene belongs to the histidine acid phosphatase family, which hydrolyze orthophosphoric monoesters to alcohol and phosphate. This protein is localized to the lysosomal membrane, and is chemically and genetically distinct from the red cell acid phosphatase. Mice lacking this gene showed multiple defects, including bone structure alterations, lysosomal storage defects, and an increased tendency towards seizures. An enzymatically-inactive allele of this gene in mice showed severe growth retardation, hair-follicle abnormalities, and an ataxia-like phenotype. Alternatively spliced transcript variants have been found for this gene. A C-terminally extended isoform is also predicted to be produced by the use of an alternative in-frame translation termination codon via a stop codon readthrough mechanism. [provided by RefSeq, Oct 2017]

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Lysosome, Riboflavin metabolism

Product images:



Coomassie blue staining of purified ACP2 protein (Cat# [TP310562]). The protein was produced from HEK293T cells transfected with ACP2 cDNA clone (Cat# [RC210562]) using MegaTran 2.0 (Cat# [TT210002]).