Recombinant Human ACP2 Protein, GST-Tagged

Cat. No. ACP2-179H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ACP2 full-length ORF (AAH03160, 1 a.a. - 423 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
Description	This gene encodes the beta subunit of lysosomal acid phosphatase (LAP). LAP is chemically and genetically distinct from red cell acid phosphatase. The encoded protein belongs to a family of distinct isoenzymes which hydrolyze orthophosphoric monoesters to alcohol and phosphate. LAP-deficiencies in mice cause multiple defects including bone structure alterations, lysosomal storage defects in the kidneys and central nervous system, and an increased tendency towards seizures. An enzymatically-inactive allele of LAP in mice exhibited a more severe phenotype than the null allele, and defects included cerebellum abnormalities, growth retardation, hair-follicle abnormalities, and an ataxia-like phenotype. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Oct 2014]
Molecular Mass	72.27 kDa
AA Sequence	MAGKRSGWSRAALLQLLLGVNLVVMPPTQARSLRFVTLLYRHGDRSPVKTYPKDPY QEEEWPQGFGQLTKEGMLQHWELGQALRQRYHGFLNTSYHRQEVYVRSTDFDRT LMSAEANLAGLFPPNGMQRFNPNISWQPIPVHTVPITEDRLLKFPLGPCPRYEQLQN

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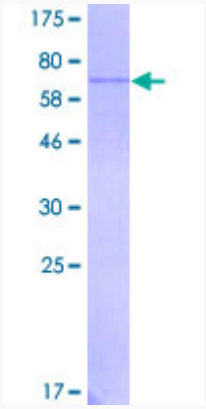
	ETRQTPEYQNESSRNAQFLDMVANETGLTDLTLETVWNVYDTLFCEQTHGLRLPP WASPQTMQRLSRLKDFSFRFLFGIYQQAEKARLQGGVLLAQIRKNLTLMATTSQLPK LLVYSAHDTTLVALQMALDVYNGEQAPYASCHIFELYQEDSGNFSVEMYFRNESDK APWPLSLPGCPHRCPLQDFLRLTEPVVPKDWQQECQLASGPADTEVIVALAVCGSI LFLLIVLLLTVLFRMQAQPPGYRHVADGEDHA
Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	ACP2 acid phosphatase 2, lysosomal [Homo sapiens]
Official Symbol	ACP2
Synonyms	ACP2; acid phosphatase 2, lysosomal; lysosomal acid phosphatase; LAP;
Gene ID	53
mRNA Refseq	NM_001131064
Protein Refseq	NP_001124536

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MIM	171650
UniProt ID	P11117



12.5% SDS-PAGE Stained with Coomassie Blue.

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