

Recombinant Full Length Human ACP2 Protein, GST-tagged

Cat. No. ACP2-801HF **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	In Vitro Cell Free System
ProteinLength	423 amino acids
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	MAGKRSGWSR AALLQLLLGV NLVVMPTQA RSLRFVTLLY RHGDRSPVKT YKDPYQEEE WPQGFGQLTK EGMLQHWELG QALRQRYHGF LNTSYHRQEV

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YVRSTDFDRT LMSAEANLAG LFPPNGMQRF NPNISWQPIP VHTVPITEDR
 LLKFPLGPCP RYEQLQNETR QTPEYQNESS RNAQFLDMVA NETGLTDLTL
 ETVWNVYDTL FCEQTHGLRL PPWASPQTMQ RLSRLKDFSF RFLFGIYQQA
 EKARLQGGVL LAQIRKNLTL MATTSQLPKL LVYSAHDTTL VALQMALDVY
 NGEQAPYASC HIFELYQEDS GNFSVEMYFR NESDKAPWPL SLPGCPhRCP
 LQDFLRLTEP VVPKDWQVEC QLASGPADTE VIVALAVCGS ILFLIVLLL
 TVLFRMQAQP PGYRHVADGE DHA

Applications

Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

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
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UniProt ID	P11117
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