

Recombinant Human ACP2 Protein, His-tagged

Cat. No. ACP2-46H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human ACP2 Protein (Tyr40-Ala250) with N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Tyr40-Ala250
Description	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.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 28.5 kDa Accurate Molecular Mass: 29 kDa

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Purity	> 95%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1 mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	ACP2 acid phosphatase 2, lysosomal [Homo sapiens (human)]
Official Symbol	ACP2
Synonyms	ACP2; acid phosphatase 2, lysosomal; lysosomal acid phosphatase; LAP
Gene ID	53
mRNA Refseq	NM_001131064
Protein Refseq	NP_001124536
MIM	171650

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UniProt ID

P11117

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