

Recombinant Full Length Human ACP2 Protein, Flag tagged

Cat. No. ACP2-20HFL Lot. No. (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of Homo sapiens acid phosphatase 2, lysosomal (ACP2), transcript variant 1, with Flag tag was expressed in HEK293T.
Species	Human
Source	HEK293T
ProteinLength	1-423 aa
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	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Molecular Mass	45.1 kDa

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Notes	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage	Store at -80 centigrade. Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Concentration	>0.05 µg/µL as determined by microplate BCA method

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_001610
Protein Refseq	NP_001601
MIM	171650
UniProt ID	P11117

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