abcam

Product datasheet

Recombinant Human Acid Phosphatase 2 protein (denatured) ab202151

1 Image

Description

Product name	Recombinant Human Acid Phosphatase 2 protein (denatured)
Purity	> 85 % SDS-PAGE.
Expression system	Escherichia coli
Accession	P11117
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MGSSHHHHHHSSGLVPRGSHMGSRSLRFVTLLYRHGDR SPVKTYPKDPYQ EEEWPQGFGQLTKEGMLQHWELGQALRQRYHGFLNTSY HRQEVYVRSTDF DRTLMSAEANLAGLFPPNGMQRFNPNISWQPIPVHTVPIT EDRLLKFPLG PCPRYEQLQNETRQTPEYQNESSRNAQFLDMVANETGLT DLTLETVWNVY DTLFCEQTHGLRLPPWASPQTMQRLSRLKDFSFRFLFGIY QQAEKARLQG GVLLAQIRKNLTLMATTSQLPKLLVYSAHDTTLVALQMALD VYNGEQAPY ASCHIFELYQEDSGNFSVEMYFRNESDKAPWPLSLPGCP HRCPLQDFLRL TEPVVPKDWQQECQLASGPADTE
Predicted molecular weight	43 kDa including tags
Amino acids	31 to 380
Tags	His tag N-Terminus
Additional sequence information	Lumenal domain (NP_001601).
Description	Recombinant Human Acid Phosphatase 2 protein

Specifications

Our **Abpromise guarantee** covers the use of **ab202151** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE
Form	Liquid

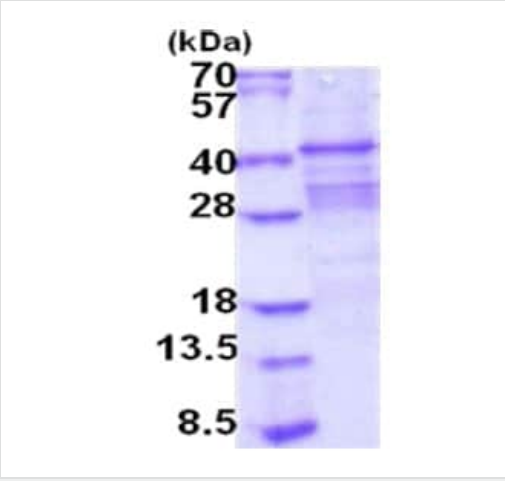
Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle. pH: 8.00 Constituents: 10% Glycerol (glycerin, glycerine), 0.32% Tris HCl

General Info

Involvement in disease	Defects in ACP2 are a cause of acid phosphatase deficiency (ACPHD) [MIM:200950]. The clinical features are intermittent vomiting, hypotonia, lethargy, opisthotonos, terminal bleeding, and death in early infancy. Lysosomal acid phosphatase is deficient in cultured fibroblasts and multiple tissues.
Sequence similarities	Belongs to the histidine acid phosphatase family.
Post-translational modifications	The membrane-bound form is converted to the soluble form by sequential proteolytic processing. First, the C-terminal cytoplasmic tail is removed. Cleavage by a lysosomal protease releases the soluble form in the lysosome lumen. N-glycosylated. The intermediates formed during enzymatic deglycosylation suggest that all eight predicted N-glycosylation sites are used.
Cellular localization	Lysosome membrane. Lysosome lumen. The soluble form arises by proteolytic processing of the membrane-bound form.

Images



SDS-PAGE - Recombinant Human Acid Phosphatase 2 protein (denatured) (ab202151)

15% SDS-PAGE analysis of ab202151 (3 µg).

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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- We investigate all quality concerns to ensure our products perform to the highest standards

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