Datasheet for ABIN7603192

anti-ACP2 antibody (N-Term)

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Overview

Quantity:	100 µg
Target:	ACP2
Binding Specificity:	N-Term
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ACP2 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	Anti-ACP2 Antibody Picoband®
Immunogen:	A synthetic peptide corresponding to a sequence at the N-terminus of human ACP2, which shares 100% and 96.4% amino acid (aa) sequence identity with mouse and rat ACP2, respectively.
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-ACP2 Antibody Picoband® (ABIN7603192). Tested in WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.

Product Details

Purification:	Immunogen affinity purified.

Target Details

Target:	ACP2
Alternative Name:	ACP2 (ACP2 Products)
Background:	Synonyms: AP-2 complex subunit beta,AP105B,Adaptor protein complex AP-2 subunit beta,Adaptor-related protein complex 2 subunit beta,Beta-2-adaptin,Beta-adaptin,Clathrin assembly protein complex 2 beta large chain,Plasma membrane adaptor HA2/AP2 adaptin beta subunit,AP2B1,ADTB2, CLAPB1, Tissue Specificity: Widely expressed, at a low level, and the highest expression is observed in skeletal muscle and brain. Also detected in fetal liver. Background: Lysosomal acid phosphatase is an enzyme that in humans is encoded by the ACP2 gene. 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.
Molecular Weight:	76 kDa
Gene ID:	53
UniProt:	P11117

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Human, Mouse, Rat

1. Beckman, G., Beckman, L., Tarnvik, A. A rare subunit variant shared by five acid phosphatase isozymes from human leukocytes and placentae. Hum. Hered. 20: 81-85, 1970. 2. Bruns, G. A. P., Gerald, P. S. Human acid phosphatase in somatic cell hybrids. Science 184: 480-482, 1974. 3. Harris, H., Hopkinson, D. A., Robson, E. B. The incidence of rare alleles determining electrophoretic variants: data on 43 enzyme loci in man. Ann. Hum. Genet. 37: 237-253, 1974.

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage:	4 °C,-20 °C
Storage Comment:	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.

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