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Polyclonal Antibody to SCARB2 (C-term) - Aff - Purified

Alternate names: 85 kDa lysosomal membrane sialoglycoprotein, CD36 antigen-like 2, CD36L2, LGP85, LIMP II, LIMP2, LIMPII, Lysosome membrane protein 2, SR-BII, SRB2, Scavenger receptor class B member 2

Catalog No.: TA306597

Quantity: 0.1 mg

Background: The lysosomal integral membrane protein 2 (LIMP2) is a heavily glycosylated type III transmembrane protein, the majority of which exists in the lumen of the lysosome and a cytoplasmic domain of approximately 20 amino acids. A deficiency of LIMP2 in mice causes uretic pelvic junction obstruction, deafness, and peripheral neuropathy associated with impaired vesicular trafficking and distribution of apically expressed proteins. More recently, LIMP2 was shown to act as a receptor to bind b-glucocerebrosidase, the enzyme defective in Gaucher disease, a lysosomal storage disorder. LIMP2-deficient mice showed missorted as well as secreted b-glucocerebrosidase, suggesting that LIMP2 also functions as the mannose-6-phosphate-independent trafficking receptor. Despite its predicted molecular weight, LIMP2 runs at approximately 80 – 85 kDa in SDS-PAGE.

Uniprot ID: Q14108

NCBI: AAH21892

GeneID: 950

Host / Isotype: Rabbit / IgG

Immunogen: LIMP2 antibody was raised against a 18 amino acid peptide from near the carboxy terminus of human LIMP2.

Format:
State: Liquid Ig fraction
Purification: Peptide affinity chromatography
Buffer System: PBS containing 0.02% sodium azide

Applications:
ELISA.
Western blot.
Immunohistochemistry on paraffin sections.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: This antibody detects SCARB2 at C-term.

Species Reactivity: **Tested:** Human, mouse

Add. Information: Blocking peptide available: AP30508CP-N

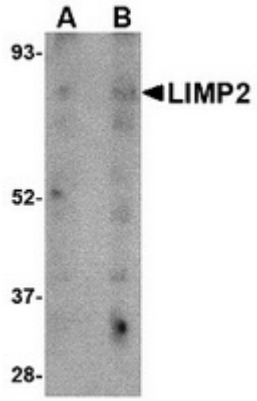
Storage: Store at 2 - 8 °C for up to one month or (in aliquots) at -20 °C for longer. Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

General Readings:

1. Fujita H, Ezaki J, Noguchi Y, Kono A, Himeno M, Kato K. Isolation and sequencing of a cDNA clone encoding 85kDa sialoglycoprotein in rat liver lysosomal membranes. Biochem Biophys Res Commun. 1991 Jul 31;178(2):444-52. PubMed PMID: 1859403.
2. Gamp AC, Tanaka Y, Lüllmann-Rauch R, Wittke D, D'Hooge R, De Deyn PP, et al. LIMP-2/LGP85 deficiency causes ureteric pelvic junction obstruction, deafness and peripheral neuropathy in mice. Hum Mol Genet. 2003 Mar 15;12(6):631-46. PubMed PMID: 12620969.
3. Knipper M, Claussen C, Rüttiger L, Zimmermann U, Lüllmann-Rauch R, Eskelinen EL, et al. Deafness in LIMP2-deficient mice due to early loss of the potassium channel KCNQ1/KCNE1 in marginal cells of the stria vascularis. J Physiol. 2006 Oct 1;576(Pt 1):73-86. Epub 2006 Aug 10. PubMed PMID: 16901941.
4. Reczek D, Schwake M, Schröder J, Hughes H, Blanz J, Jin X, et al. LIMP-2 is a receptor for lysosomal mannose-6-phosphate-independent targeting of beta-glucocerebrosidase. Cell. 2007 Nov 16;131(4):770-83. PubMed PMID: 18022370.

Pictures:

Western blot analysis of LIMP2 in human skeletal muscle tissue lysate with LIMP2 antibody at (A) 1 and (B) 2 ug/ml.



Immunohistochemistry of LIMP2 in human skeletal muscle tissue with LIMP2 antibody at 10 ug/ml.