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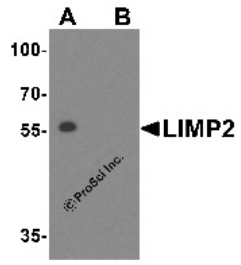
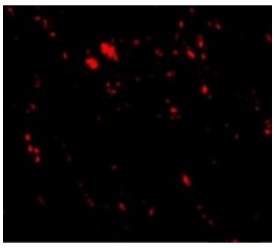
LIMP2 Antibody

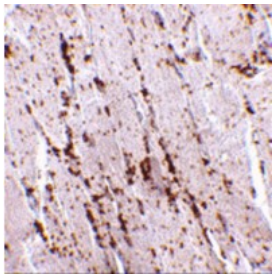
CATALOG NUMBER: 4621



Western blot analysis of LIMP2 in mouse liver tissue lysate with LIMP2 antibody at 1 ug/mL in (A) the absence and (B) presence of blocking peptide.



Immunofluorescence of LIMP2 in Human Skeletal Muscle tissue with LIMP2 antibody at 20 ug/mL.



Immunohistochemistry of LIMP2 in human skeletal muscle tissue with LIMP2 antibody at 2.5 ug/mL.

Specifications

SPECIES REACTIVITY:	Human, Mouse, Rat
TESTED APPLICATIONS:	ELISA, IF, IHC-P, WB
APPLICATIONS:	LIMP2 antibody can be used for detection of LIMP2 by Western blot at 1 ug/mL. Antibody can also be used for immunohistochemistry starting at 2.5 ug/mL. For immunofluorescence start at 20 ug/mL.
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.
POSITIVE CONTROL:	1) Cat. No. 1404 - Mouse Liver Tissue Lysate
PREDICTED MOLECULAR WEIGHT:	Predicted: 53 kDa Observed: 57 kDa
IMMUNOGEN:	LIMP2 antibody was raised against a 16 amino acid synthetic peptide from near the center of human LIMP2. The immunogen is located within amino acids 70 - 120 of LIMP2.
HOST SPECIES:	Rabbit

Properties

PURIFICATION:	LIMP2 Antibody is affinity chromatography purified via peptide column.
PHYSICAL STATE:	Liquid
BUFFER:	LIMP2 Antibody is supplied in PBS containing 0.02% sodium azide.
CONCENTRATION:	1 mg/mL
STORAGE CONDITIONS:	LIMP2 antibody can be stored at 4˚C for three months and -20˚C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
CLONALITY:	Polyclonal
ISOTYPE:	IgG
CONJUGATE:	Unconjugated

Additional Info

ALTERNATE NAMES:	LIMP2 Antibody: AMRF, EPM4, LGP85, CD36L2, HLGP85, LIMP-2, LIMPII, SR-BII, LIMP2, Lysosome membrane protein 2, 85 kDa lysosomal membrane sialoglycoprotein
ACCESSION NO.:	AAH21892
PROTEIN GI NO.:	18257312
OFFICIAL SYMBOL:	SCARB2
GENE ID:	950

Background

BACKGROUND:	LIMP2 Antibody: 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 beta-glucocerebrosidase, the enzyme defective in Gaucher disease, a lysosomal storage disorder. LIMP2-deficient mice showed missorted as well as secreted beta-glucocerebrosidase, suggesting that LIMP2 also functions as the mannose-6-phosphate-independent trafficking receptor.
REFERENCES:	1) Fujita H, Saeki M, Yasunaga K, et al. Isolation and sequencing of a cDNA clone encoding 85kDa sialoglycoprotein in rat liver lysosomal membranes. Biochem. Biophys. Res. Commun. 1991; 178:444-52.
	2) Gamp A, Tanaka Y, Lullmann-Rauch R, et al. LIMP-2/LGP85 deficiency causes uretic pelvic junction obstruction, deafness and peripheral neuropathy in mice. Hum. Mol. Genet. 2003; 12:631-46.
	3) Knipper M, Claussen C, Ruttiger L, 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; 576:73-86.
	4) Reczek D, Schwake M, Schroder J, et al. LIMP-2 is a receptor for lysosomal mannose-6-phosphate-independent targeting of b-glucocerebrosidase. Cell 2007; 131:770-83.

FOR RESEARCH USE ONLY

December 13, 2016