Human LIMPII/SR-B2 Alexa Fluor® 488-conjugated Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF1966G
100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human LIMPII in ELISAs and Western blots. In sandwich immunoassays, approximately 6% cross-reactivity with recombinant mouse LIMPII is observed and less than 0.3% cross-reactivity with recombinant human (rh) SR-B1 and rhCD36 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human LIMPII lumenal loop Arg27-Thr432 Accession # Q14108
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

ELISA Capture (Matched Antibody Pair)	Optimal dilution of this antibody should be experimentally determined.
ELISA Detection (Matched Antibody Pair)	Optimal dilution of this antibody should be experimentally determined.
Western Blot	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

LIMPII (Lysosomal Integral Membrane Protein II), also known as LPG85 (85 kDa lysosomal membrane sialoglycoprotein) and as CD36 antigen-like 2 (CD36L2), is a major lysosomal membrane protein. It belongs to the scavenger receptor class B subfamily and is designated member 2 (SR-B2). Other mammalian members of this family include SR-B1 (alternatively known as Cla-1 and CD36L1), and SR-B3 (CD36) (1 - 3). SR-B/CD36 family members are type III integral membrane proteins with an N- as well as a C-terminal cytoplasmic tail, and a large extracellular (or lumenal in the case of LIMPII) loop containing similarly spaced cysteine residues and multiple glycosylation sites. The C-terminal cytoplasmic tail has a di-leucine-based motif that mediates effective lysosomal targeting. LIMPII is widely expressed on all tissues and cell types so far examined. It is also expressed on the surface of activated platelets. LIMPII binds thrombospondin-1, but the biological significance of this interaction is not known. LIMPII-thrombospondin interaction may contribute to the pro-adhesive changes of activated platelets during coagulation, and inflammation (1). Overexpression of LIMPII causes an enlargement of early endosomes and late endosomes, suggesting that LIMPII may play a role in lysosome/endosome biogenesis (4). Mice deficient in LIMPII are impaired in membrane transport processes, resulting in ureteric pelvic junction obstruction, deafness and peripheral neuropathy (5).

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