

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 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 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).

PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc, and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.