

DESCRIPTION

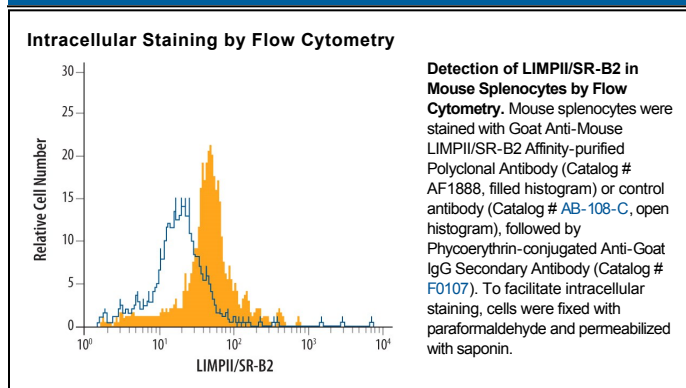
Species Reactivity	Mouse
Specificity	Detects mouse LIMPII/SR-B2 Luminal Loop in direct ELISAs and Western blots. In direct ELISAs and Western blots, approximately 25% cross-reactivity with recombinant human (rh) LIMPII is observed and less than 1% cross-reactivity with rhCD36 and rhSR-B1 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse LIMPII/SR-B2 Luminal Loop Arg27-Thr432 Accession # O35114
Endotoxin Level	<0.10 EU per 1 µg of the antibody by the LAL method.
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

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.

	Recommended Concentration	Sample
Western Blot	0.1 µg/mL	Recombinant Mouse LIMPII/SR-B2 Fc Chimera (Catalog # 1888-LM)
Intracellular Staining by Flow Cytometry	0.25 µg/10 ⁶ cells	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

LIMPII (Lysosomal Integral Membrane Protein II), also known as LPG85 (85 kDa lysosomal membrane sialoglycoprotein) and 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 luminal 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 expressed on all tissues and cell types examined so far, including 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 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).

References:

1. Crombie, R. and R. Silverstein (1998) *J. Biol. Chem.* **273**:4855.
2. Febbraio, M. *et al.* (2001) *J. Clin. Invest.* **108**:785.
3. Eskelinen, E-L. *et al.* (2003) *Trends in Cell Biol.* **13**:137.
4. Kuronita, T. *et al.* (2002) *J. Cell Sci.* **115**:4117.
5. Gamp, A-C. *et al.* (2003) *Human Mol. Genet.* **12**:631.