# Mouse LIMPII/SR-B2 Lumenal Loop Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF1888

## DESCRIPTION

| | |
|---|---|
| **Species Reactivity** | Mouse |
| **Specificity** | Detects mouse LIMPII/SR-B2 Lumenal 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 Lumenal Loop<br>Arg27-Thr432<br>Accession # O35114 |
| **Formulation** | Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. |

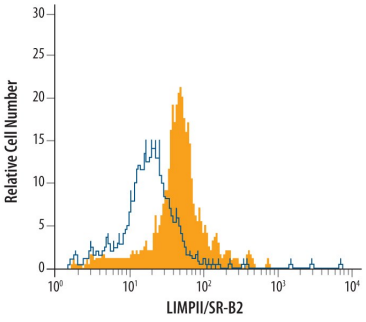
## APPLICATIONS

**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

**Intracellular Staining by Flow Cytometry**




**Detection of LIMPII/SR-B2 in Mouse Splenocytes by Flow Cytometry.** Mouse splenocytes were stained with Goat Anti-Mouse LIMPII/SR-B2 Affinity-purified Polyclonal Antibody (Catalog # AF1888, filled histogram) or control antibody (Catalog # Catalog # AB-108-C, open histogram), followed by Phycoerythrin-conjugated Anti-Goat IgG Secondary Antibody (Catalog # Catalog # F0107). To facilitate intracellular staining, cells were fixed with paraformaldehyde and permeabilized with saponin.

## 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. |
| **Stability & Storage** | **Use a manual defrost freezer and avoid repeated freeze-thaw cycles.**<br>• 12 months from date of receipt, -20 to -70 °C as supplied.<br>• 1 month, 2 to 8 °C under sterile conditions after reconstitution.<br>• 6 months, -20 to -70 °C under sterile conditions after reconstitution. |



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## 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:**


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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.




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