

**DESCRIPTION**

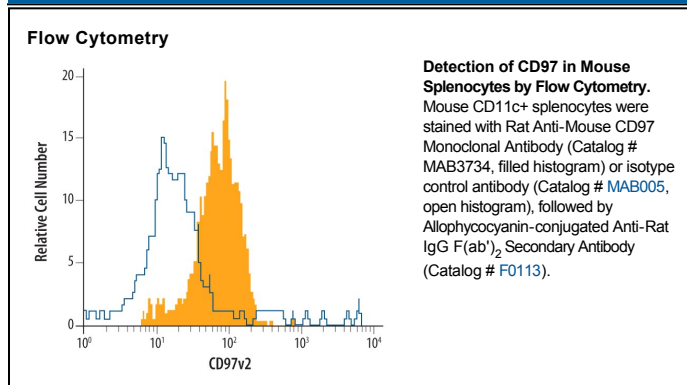
<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	In direct ELISAs, approximately 20% cross-reactivity with recombinant mouse (rm) CD97 and no cross-reactivity with recombinant human (rh) CD96v2, rhCD97, or rmCD96 is observed.
<b>Source</b>	Monoclonal Rat IgG <sub>1</sub> Clone # 587702
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Chinese hamster ovary cell line CHO-derived recombinant mouse CD97v2 Gln24-His384 Accession # AAH06676
<b>Endotoxin Level</b>	<0.10 EU per 1 µg of the antibody by the LAL method.
<b>Formulation</b>	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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Flow Cytometry</b>	2.5 µg/10 <sup>6</sup> cells	See Below
<b>CyTOF-ready</b>	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	
<b>Blockade of Receptor-ligand Interaction</b>	In a functional ELISA, 0.5-2.5 µg/mL of this antibody will block 50% of the binding of 1 µg/mL of Recombinant Mouse CD97 Variant 2 (Catalog # 5494-CD) to immobilized Recombinant Mouse CD55/DAF (Catalog # 5490-CD) coated at 0.5 µg/mL (100 µL/well). At 5 µg/mL, this antibody will block >90% of the binding.	

**DATA**



**PREPARATION AND STORAGE**

<b>Reconstitution</b>	Sterile PBS to a final concentration of 0.5 mg/mL.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>• 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>• 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>• 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

**BACKGROUND**

CD97 is an approximately 100 kDa N-glycosylated member of the LNB-TM7 family of G protein-coupled proteins. It contains a 510 amino acid (aa) N-terminal extracellular region with four EGF-like domains and a juxtamembrane GPS motif which enables proteolytic shedding of the N-terminal extracellular domain. The alternately spliced variant 2 of CD97 exhibits a 94 aa deletion that results in loss of the third EGF-like repeat. CD97 is expressed on monocytes, macrophages, T cells, B cell subsets, dendritic cells, hematopoietic progenitor cells, and smooth muscle cells. It binds CD55/DAF, chondroitin sulfate, and Integrin although interaction with these molecules can vary between splice forms of CD97. CD97 participates in neutrophil migration, host defense, and angiogenesis. Within aa 24-384, mouse CD97 variant 2 shares 51% aa and 76% aa sequence identity with corresponding regions of human and rat CD97, respectively.