

DESCRIPTION

Species Reactivity	Mouse
Specificity	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.
Source	Monoclonal Rat IgG ₁ Clone # 587702
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant mouse CD97v2 Gln24-His384 Accession # AAH06676
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *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.

	Recommended Concentration	Sample
Flow Cytometry	0.25-1 µg/10 ⁶ cells	Mouse CD11c+ splenocytes

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. <ul style="list-style-type: none"> 12 months from date of receipt, 2 to 8 °C as supplied.

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.

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