

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human DC-STAMP in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant mouse DC-STAMP is observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 788524
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human DC-STAMP Asp314-Thr376 Accession # Q9H295
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	Human mature dendritic cells derived from CD14 ⁺ Human peripheral blood mononuclear cells (PBMCs) treated with Recombinant Human IL-4 (Catalog # 204-IL) and Recombinant Human GM-CSF (Catalog # 215-GM) for 6 days then treated with LPS, Recombinant Human TNF-α (Catalog # 210-TA), and Recombinant Human IL-1β (Catalog # 201-LB) for 24 hours

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

DC-STAMP, also known as TM7SF4, is an approximately 50 kDa glycoprotein with seven transmembrane segments. It is expressed on the surface of dendritic cells and monocytes as well as on osteoclasts and their progenitors. DC-STAMP binds CTGF/CCN2 and cooperates with TRANCE/RANK L for inducing osteoclast differentiation and fusion into multinucleated cells. It contains a cytoplasmic immunoreceptor tyrosine-based inhibitory motif (ITIM) and associates with FC gamma RIII/CD16. Within aa 314-376, human DC-STAMP shares approximately 75% aa sequence identity with mouse and rat DC-STAMP.

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