

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 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 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.

PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc, and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.