

**DESCRIPTION**

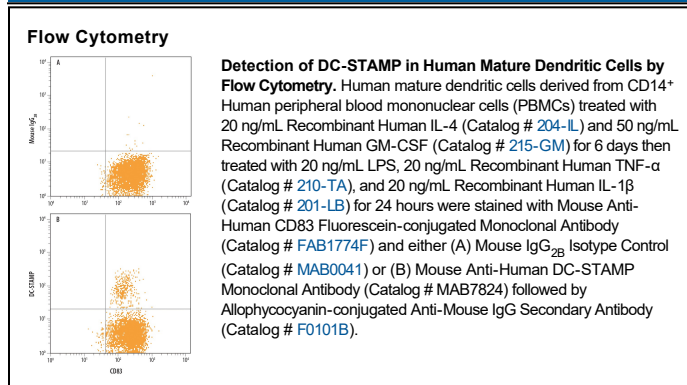
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human DC-STAMP in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant mouse DC-STAMP is observed.
<b>Source</b>	Monoclonal Mouse IgG <sub>2B</sub> Clone # 788524
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human DC-STAMP Asp314-Thr376 Accession # Q9H295
<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 either lyophilized or 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.	

**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**

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.