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Product datasheet for TA320317

CXCR1 Mouse Monoclonal Antibody [Clone ID: eBio8F1-1-4 (8F1-1-4)]

Product data:

Product Type:	Primary Antibodies
Clone Name:	eBio8F1-1-4 (8F1-1-4)
Applications:	FC
Recommended Dilution:	Flow, IHC
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Formulation:	Aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer
Concentration:	lot specific
Purification:	Affinity purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	C-X-C motif chemokine receptor 1
Database Link:	NP_000625 Entrez Gene 3577 Human P25024
Background:	The eBio8F1-1-4 monoclonal antibody reacts with human CD181 (CXCR1, IL-8Rα). CD181 is a 67-70 kDa member of the 7-transmembrane spanning G-protein coupled receptor (GPCR) family. CD181 is expressed as a homodimer, or a heterodimer with CD182 (CXCR2, IL-8Rβ) and is expressed on granulocytes, NK cells, a subset of T cells, mast cells, monocytes, endothelial cells, megakaryocytes and oligodendrocytes. Binding of it's ligands, which include IL-8, NAP-2, GCP-2 and GRO-α, induces several biological outcomes such as cell activation, chemotaxis, proliferation and angiogenesis. There are several functional differences between CD181 and CD182. Both receptors are able to mediate chemotaxis and intracellular calcium changes, but only CD181 mediates phospolipase D activation and respiratory burst. Furthermore, studies have shown that IL-8 predominantly mediates its effects on neutrophil function through CD181.

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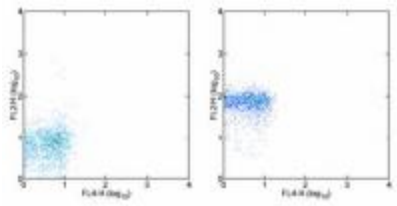
Synonyms: C-C; C-C-CKR-1; CD128; CD181; CDw128a; CKR-1; CMKAR1; IL8R1; IL8RA; IL8RBA

Protein Families: Druggable Genome, GPCR, Transmembrane

Protein Pathways: Chemokine signaling pathway, Cytokine-cytokine receptor interaction, Endocytosis, Epithelial cell signaling in Helicobacter pylori infection

Product images:



Staining of normal human peripheral blood cells with 0.25 ug of Mouse IgG2b kappa Isotype Control Purified (left) or 0.25 ug of Anti-Human CD181 (CXCR1) Purified (right) followed by F (ab')2 Anti-Mouse IgG PE. Cells in the large scatter population were used for analysis.