

Product datasheet for **SM2004F**

IGF2R Mouse Monoclonal Antibody [Clone ID: MEM-238]

Product data:

Product Type:	Primary Antibodies
Clone Name:	MEM-238
Applications:	FC
Recommended Dilution:	Flow Cytometry: Use 20 µl reagent/ 100 µl of whole blood or 10e6 cells.
Reactivity:	Human, Primate
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Recombinant Vaccinia virus encoding CD222
Specificity:	The antibody recognizes an epitope between domains 2 and 5 of CD222 (IGF2 receptor), a ubiquitously expressed 250 kDa multifunctional type I transmembrane protein. The majority of CD222 is found in the late endosomal/prelysosomal compartment, 5-10% in the plasma membrane and the truncated (220 kDa) form of CD222 is present in human and bovine serum.
Formulation:	Phosphate buffered saline (PBS) solution containing 15mM sodium azide Label: FITC State: Liquid purified Ig fraction Label: Conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions. The reagent is free of unconjugated FITC and adjusted for direct use.
Conjugation:	FITC
Storage:	Store the antibody at 2-8°C. DO NOT FREEZE! This product is photosensitive and should be protected from light.
Stability:	Shelf life: one year from despatch.
Gene Name:	insulin like growth factor 2 receptor
Database Link:	Entrez Gene 3482 Human P11717



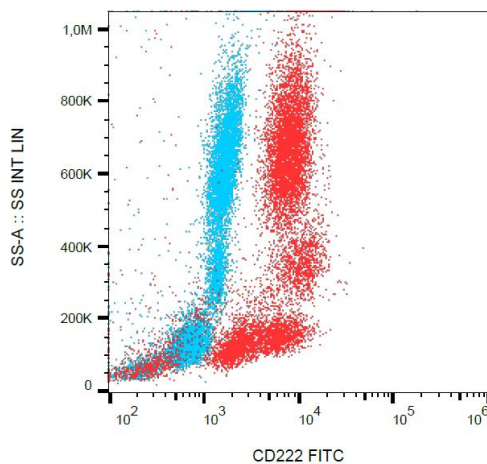
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Background:

CD222 is a ubiquitously expressed 250 kDa transmembrane protein. No more than 10% of CD222 is present on the cell surface where it serves as a multifunctional receptor. Intracellular (major) fraction of CD222 is involved in transport of newly synthesized lysosomal enzymes modified by mannose 6-phosphate from Golgi apparatus to lysosomes. The cell surface CD222 binds and internalizes exogenous mannose 6-phosphate-containing ligands. Importantly, CD222 is crucial for internalization and degradation of insulin-like growth factor 2, thus controlling cell growth. CD222 also complexes CD87 (urokinase-type plasminogen-activator receptor), plasminogen and latent TGF- β , last but not least CD222 serves as a receptor for heparanase and even for *Listeria*.

Synonyms:

CI-MPR, Insulin-like growth factor 2 receptor, Insulin-like growth factor II receptor, M6P/IGF2 receptor, CI Man-6-P receptor, M6PR, Late Endosome Marker, M6P/IGF2R, MPR 300

Product images:

Intracellular staining of human peripheral blood with anti-CD222 (MEM-238) FITC.