

Product datasheet for **SM2004PS**

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

Product data:

Product Type:	Primary Antibodies
Clone Name:	MEM-238
Applications:	FC, IP, WB
Recommended Dilution:	Flow cytometry: 1-2 µg/ml. Immunoprecipitation. Western blot (non reducing conditions).
Reactivity:	Human, Mouse, Primate
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Recombinant <i>Vaccinia virus</i> 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:	PBS, pH~7.4 containing 15 mM Sodium Azide as preservative State: Purified State: Liquid purified Ig fraction (> 95% by SDS-PAGE)
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein-A
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C. DO NOT FREEZE!
Stability:	Shelf life: one year from despatch.
Gene Name:	insulin like growth factor 2 receptor
Database Link:	Entrez Gene 3482 Human P11717



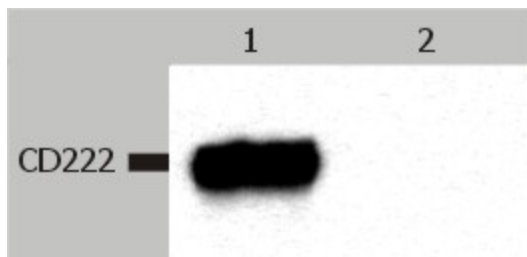
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Background:

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:

Western Blotting analysis (non-reducing conditions) of CD222 in whole cell lysate of JURKAT human peripheral blood T cell leukemia cell line. Lane 1: immunostaining with anti-CD222 (MEM-238) Lane 2: immunostaining with Isotype mouse IgG1 control