

ARG62778 anti-CD222 / IGF2R antibody [MEM-238] (FITC)

Package: 100 tests
Store at: 4°C

Summary

Product Description	FITC-conjugated Mouse Monoclonal antibody [MEM-238] recognizes CD222 / IGF2R
Tested Reactivity	Hu, NHuPrm
Tested Application	FACS
Specificity	The clone MEM-238 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.
Host	Mouse
Clonality	Monoclonal
Clone	MEM-238
Isotype	IgG1
Target Name	CD222 / IGF2R
Immunogen	Recombinant Vaccinia virus encoding CD222.
Conjugation	FITC
Alternate Names	CD222; MPR 300; Insulin-like growth factor II receptor; M6P/IGF2R; MPRI; 300 kDa mannose 6-phosphate receptor; IGF-II receptor; CI Man-6-P receptor; M6P/IGF2 receptor; MPR1; CIMPR; Cation-independent mannose-6-phosphate receptor; CD antigen CD222; Insulin-like growth factor 2 receptor; M6P-R; CI-MPR; M6PR

Application Instructions

Application table	Application	Dilution
	FACS	20 µl / 100 µl of whole blood or 10 ⁶ cells
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form	Liquid
Purification Note	The purified antibody is conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions. The reagent is free of unconjugated FITC and adjusted for direct use. No reconstitution is necessary.
Buffer	PBS, 15 mM Sodium azide and 0.2% (w/v) high-grade protease free BSA
Preservative	15 mM Sodium azide
Stabilizer	0.2% (w/v) high-grade protease free BSA
Storage instruction	Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note

For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links

[GeneID: 3482 Human](#)

[Swiss-port # P11717 Human](#)

Gene Symbol

IGF2R

Gene Full Name

insulin-like growth factor 2 receptor

Background

CD222 (CIMPR, cation-independent mannose 6-phosphate receptor; IGF2 receptor) 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-beta, last but not least CD222 serves as a receptor for heparanase and even for Listeria.

Function

Transport of phosphorylated lysosomal enzymes from the Golgi complex and the cell surface to lysosomes. Lysosomal enzymes bearing phosphomannosyl residues bind specifically to mannose-6-phosphate receptors in the Golgi apparatus and the resulting receptor-ligand complex is transported to an acidic prelysosomal compartment where the low pH mediates the dissociation of the complex. This receptor also binds IGF2. Acts as a positive regulator of T-cell coactivation, by binding DPP4. [UniProt]

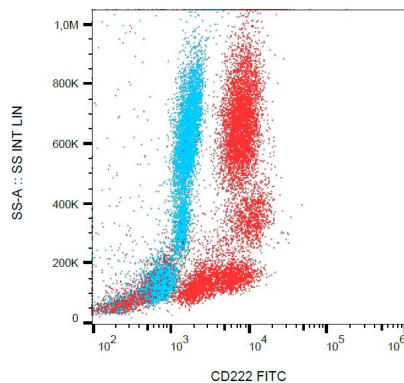
Research Area

Controls and Markers antibody; Immune System antibody; Signaling Transduction antibody

Calculated Mw

274 kDa

Images



ARG62778 anti-CD222 / IGF2R antibody [MEM-238] (FITC) FACS image

Flow Cytometry: Human peripheral blood stained with ARG62778 anti-CD222 / IGF2R antibody [MEM-238] (FITC) (red) or Isotype control antibody (blue).