

**ARG54276**  
**anti-CD222 / IGF2R antibody [MEM-238] (PE)**

Package: 50 tests

Store at: 4°C

### Summary

|                     |  |
|---------------------|--|
| Product Description | PE-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         | PE   |
| 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 <sup>6</sup> 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 R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography 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 exogeneous 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]

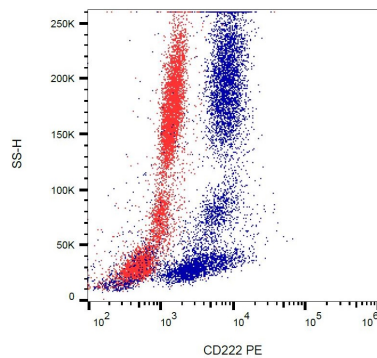
Research Area

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

Calculated Mw

274 kDa

## Images



ARG54276 anti-CD222 / IGF2R antibody [MEM-238] (PE) FACS image

Flow Cytometry: Human peripheral blood stained with ARG54276 anti-CD222 / IGF2R antibody [MEM-238] (PE) (blue) or Mouse IgG1 Isotype control antibody (PE) (red).