

Datasheet for ABIN5633271
anti-IGF2R antibody (Biotin)[Go to Product page](#)

2 Images

Overview

Quantity:	0.1 mg
Target:	IGF2R
Reactivity:	Human, Non-Human Primate
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This IGF2R antibody is conjugated to Biotin
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunoprecipitation (IP)

Product Details

Immunogen:	Recombinant Vaccinia virus encoding CD222.
Clone:	MEM-238
Isotype:	IgG1
Specificity:	The antibody MEM-238 recognizes an extracellular epitope between amino acids 192-697 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.
Cross-Reactivity (Details):	Human, Non-Human Primates
Purification:	Purified antibody is conjugated with biotin LC-NHS ester under optimum conditions and unconjugated antibody and free biotin are removed by size-exclusion chromatography.

Target Details

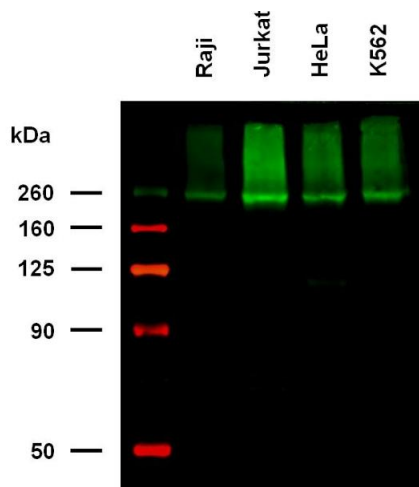
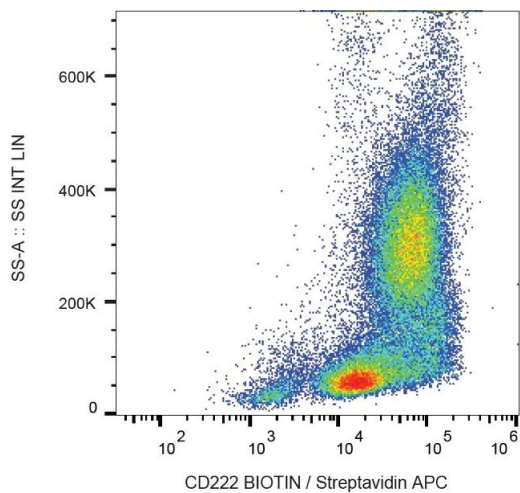
Target:	IGF2R
Alternative Name:	CD222 (IGF2R Products)
Background:	<p>Insulin like growth factor 2 receptor provided, CD222 (CIMPR, cation-independent mannose 6-phosphate receptor, IGF2 receptor) is a ubiquitously expressed 250 kDa transmembrane protein. No more than 10 % of CD222 is present on the cell 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., IGF2R, MPR1, CIMPR, MPR300, M6P-R</p>
Gene ID:	3482
UniProt:	P11717

Application Details

Application Notes:	Flow cytometry: Extracellular and intracellular staining, recommended dilution: 2-6 µg/mL.
Comment:	The purified antibody is conjugated with Biotin-LC-NHS under optimum conditions. The reagent is free of unconjugated biotin.
Restrictions:	For Research Use only

Handling

Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.



Flow Cytometry

Image 1. Flow cytometry analysis (surface staining) of human peripheral blood with anti-CD222 (MEM-238) biotin, streptavidin-APC.

Western Blotting

Image 2. Anti-Hu CD222 Biotin (clone MEM-238) works in WB application under non-reducing conditions. Western blotting analysis was performed on whole cell extracts (RIPA lysis buffer) of Raji, Jurkat, HeLa, and K562 cell lines, mixed and heated (100 °C, 5 min) with non-reducing SDS-loading buffer. Samples were resolved using 7 % Tris-glycine SDS gel electrophoresis. Nitrocellulose membrane blot was probed with biotinylated mouse IgG1 monoclonal antibody MEM-238 (1 µg/mL), followed by IRDye 800CW Streptavidin (green). Multiplex fluorescent Western blot detection was performed. CD222 Molecules were detected at ~250 kDa in all analysed cell lines.