Datasheet for ABIN94039

anti-IGF2R antibody

4 Images | 2 Publications

Go to Product page

Overview

Quantity:	0.1 mg
Target:	IGF2R
Reactivity:	Human, Non-Human Primate
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This IGF2R antibody is un-conjugated
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 by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

Target Details

Target:	IGF2R
Alternative Name:	CD222 (IGF2R Products)
Background:	Insulin like growth factor 2 receptorprovided,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 crutial for internalization and degradation of insulin-like growth factor 2, thus controling 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
Gene ID:	3482
UniProt:	P11717

Application Details

Application Notes:	Flow cytometry: Extracellular and intracellular staining. Recommended dilution: 2-6 µg/mL. Western blotting: Non-reducing conditions.
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.
Handling Advice:	**Do not freeze.**
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

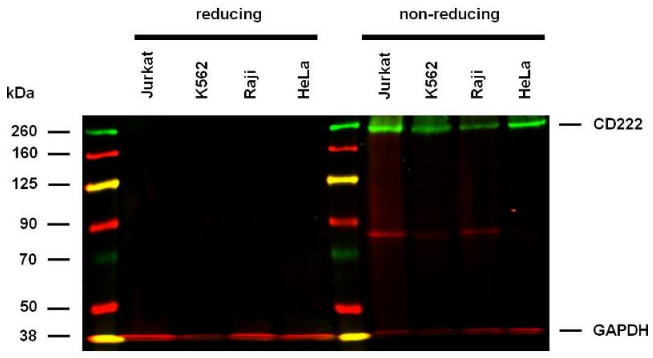
Publications

Product cited in:

Schatzlmaier, Supper, Göschl, Zwirzitz, Eckerstorfer, Ellmeier, Huppa, Stockinger: "Rapid multiplex analysis of lipid raft components with single-cell resolution." in: **Science signaling**, Vol. 8, Issue 395, pp. rs11, (2015) (PubMed).

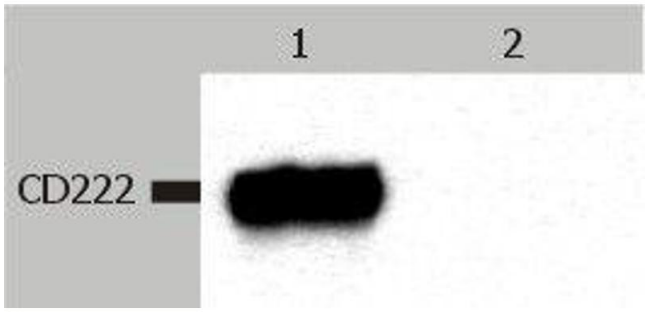
Leksa, Godár, Cebecauer, Hilgert, Breuss, Weidle, Horejsí, Binder, Stockinger: "The N terminus of mannose 6-phosphate/insulin-like growth factor 2 receptor in regulation of fibrinolysis and cell migration." in: **The Journal of biological chemistry**, Vol. 277, Issue 43, pp. 40575-82, (2002) (PubMed).

Images



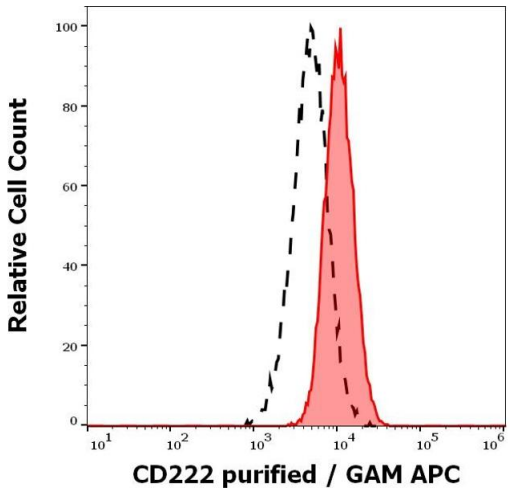
Western Blotting

Image 1. Anti-Hu CD222 Purified (clone MEM-238) works in WB application under non-reducing conditions. Western blotting analysis was performed on whole cell extracts (RIPA lysis buffer) of Jurkat, K562, Raji, and HeLa cell lines, mixed and heated (100 °C, 5 min) with reducing and non-reducing SDS-loading buffer. Samples were resolved using 7 % Tris-glycine SDS gel electrophoresis. Nitrocellulose membrane blot was probed with mouse IgG1 monoclonal antibody MEM-238 (1 µg/mL), followed by IRDye 800CW Goat-anti-Mouse IgG (green). Mouse anti-GAPDH monoclonal antibody FF26A conjugated with DyLight 680 (0.1 µg/mL), was used as the loading control (red). Multiplex fluorescent Western blot detection was performed. CD222 Molecules were detected at ~250 kDa in all analysed cell lines.



Western Blotting

Image 2. 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 (PPV-06)



Flow Cytometry

Image 3. Separation of human neutrophil granulocytes (red-filled) from lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD222 (MEM-238) purified antibody (concentration in sample 2 µg/mL) GAM APC.

Please check the product details page for more images. Overall 4 images are available for ABIN94039.