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MRC1 Rabbit pAb

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Catalog # AP52168

Product Information

Application	WB
Primary Accession	P22897
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	166012
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human MRC1/CD206
Epitope Specificity	201-300/1456
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Endosome membrane; Single-pass type I membrane protein. Cell membrane; Single-pass type I membrane protein.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The recognition of complex carbohydrate structures on glycoproteins is an important part of several biological processes, including cell-cell recognition, serum glycoprotein turnover, and neutralization of pathogens. The protein encoded by this gene is a type I membrane receptor that mediates the endocytosis of glycoproteins by macrophages. The protein has been shown to bind high-mannose structures on the surface of potentially pathogenic viruses, bacteria, and fungi so that they can be neutralized by phagocytic engulfment. This gene is in close proximity to MRC1L1. The gene loci including this gene, MRC1L1, as well as LOC340843 and LOC340893, consist of two nearly identical, tandemly linked genomic regions, which are thought to be a part of a duplicated region. [provided by RefSeq].

Additional Information

Gene ID	4360
Other Names	Macrophage mannose receptor 1, MMR, C-type lectin domain family 13 member D, C-type lectin domain family 13 member D-like, Human mannose receptor, hMR, Macrophage mannose receptor 1-like protein 1, CD206, MRC1, CLEC13D, CLEC13DL, MRC1L1
Dilution	WB=1:500-2000,ICC/IF=1:100-200,Flow-Cyt=1:100-200
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody

is stable for at least two weeks at 2-4 °C.

Protein Information

Name	MRC1
Synonyms	CLEC13D, CLEC13DL, MRC1L1
Function	Mediates the endocytosis of glycoproteins by macrophages. Binds both sulfated and non-sulfated polysaccharide chains. (Microbial infection) Acts as a receptor for Dengue virus envelope protein E.
Cellular Location	Endosome membrane; Single-pass type I membrane protein. Cell membrane; Single-pass type I membrane protein

Background

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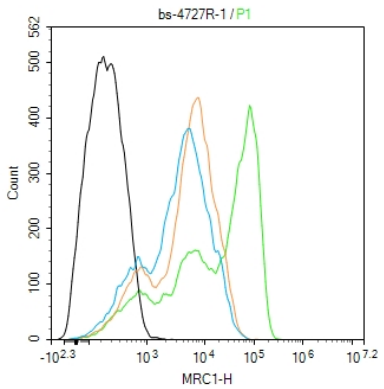
References

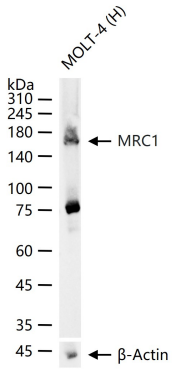
Taylor M.E.,et al.J. Biol. Chem. 265:12156-12162(1990).
Ezekowitz R.A.,et al.J. Exp. Med. 172:1785-1794(1990).
Kim S.J.,et al.Genomics 14:721-727(1992).
Deloukas P.,et al.Nature 429:375-381(2004).
Taylor M.E.,et al.J. Biol. Chem. 267:1719-1726(1992).

Images



The Molt-4(H) cells were incubated in 5%BSA to block non-specific protein-protein interactions (30 min at r.t.). Primary Antibody (green): Rabbit Anti-MRC1 antibody (AP52168): 1 µg/10^6 cells; Secondary Antibody (white blue): Goat anti-Rabbit IgG-FITC (AP52168-FITC): 1 µg/test. Isotype Control (orange): Rabbit IgG (AP52168). Blank control (black): PBS. Acquisition of 20,000 events was performed.

25 ug total protein per lane of various lysates (see on figure) probed with MRC1 polyclonal antibody, unconjugated (AP52168) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



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