

#91992 Store at -20°C

**CD206/MRC1 (E2L9N) Rabbit mAb****Cell Signaling**  
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**For Research Use Only. Not for Use in Diagnostic Procedures.**

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IHC-Bond, IHC-P, IF-IC	H	Endogenous	190-250	Rabbit IgG	#P22897	4360

**Product Usage Information****Application**

Western Blotting  
IHC Leica Bond  
Immunohistochemistry (Paraffin)  
Immunofluorescence (Immunocytochemistry)

**Dilution**

1:1000  
1:200 - 1:800  
1:200 - 1:800  
1:100 - 1:400

**Storage**

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

For a carrier free (BSA and azide free) version of this product see product #49243.

**Specificity / Sensitivity**

CD206/MRC1 (E2L9N) Rabbit mAb recognizes endogenous levels of total CD206/MRC1 protein.

**Source / Purification**

Monoclonal antibody is produced by immunizing animals with recombinant human CD206/MRC1 protein.

**Background**

The mannose receptor (MR/CLEC13D/CD206/MMR/MRC1/Macrophage mannose receptor 1) is an endocytic receptor expressed by populations of dendritic cells, macrophages, and nonvascular endothelium (1). The mannose receptor is a heavily glycosylated type I transmembrane protein with three types of extracellular domains and a short carboxy-terminal cytoplasmic domain with no apparent signaling motif (2-4). The extracellular portion of the protein is made up of a CR domain, which binds sulfated glycans, an FNII domain, which binds collagens, and eight C-type lectin domains, which bind carbohydrates containing mannose, fucose, or GlcNAc (4-7). The receptor recycles between the plasma membrane and early endosomes (8). Functions include a role in antigen cross-presentation, clearance of endogenous proteins, pathogen detection, and trafficking through lymphatic vessels (9-12).

The mannose receptor is a marker for M2 macrophages (13).

**Background References**

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2. Lennartz, M.R. et al. (1989) *J Biol Chem* 264, 2385-90.
3. Wileman, T.E. et al. (1986) *Proc Natl Acad Sci U S A* 83, 2501-5.
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5. Fiete, D.J. et al. (1998) *Proc Natl Acad Sci U S A* 95, 2089-93.
6. Napper, C.E. et al. (2006) *Biochem J* 395, 579-86.
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8. Tietze, C. et al. (1982) *J Cell Biol* 92, 417-24.
9. Burgdorf, S. et al. (2006) *J Immunol* 176, 6770-6.
10. Lee, S.J. et al. (2002) *Science* 295, 1898-901.
11. Milone, M.C. and Fitzgerald-Bocarsly, P. (1998) *J Immunol* 161, 2391-9.
12. Martila-Ichihara, F. et al. (2008) *Blood* 112, 64-72.

**Species Reactivity**

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

**Western Blot Buffer**

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

**Applications Key**

**WB:** Western Blotting **IHC-Bond:** IHC Leica Bond **IHC-P:** Immunohistochemistry (Paraffin)  
**IF-IC:** Immunofluorescence (Immunocytochemistry)

**Cross-Reactivity Key**

**H:** human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster  
**X:** Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse  
**GP:** Guinea Pig **Rab:** rabbit **All:** all species expected

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