

Product datasheet for **DDX0380P-100**

Mannose Receptor (MRC1) (Extracell. Dom.) Mouse Monoclonal Antibody [Clone ID: 122D2.08]

Product data:

Product Type:	Primary Antibodies
Clone Name:	122D2.08
Applications:	FC, FN, IHC, IP, NEUT, WB
Recommend Dilution:	Surface Flow Cytometry, WB, IHC, IP, internalization, inhibition of antibody binding by mannan, inhibition of dextran-fitc uptake by mannose-R expressing cells
Reactivity:	Human, Porcine, Sheep
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	human (GM+TNF) DC subset
Specificity:	human mannose receptor (extracellular part). Species cross-reactivity: swine, sheep
Formulation:	Purified: Tris-NaCl pH 8. Coupled: PBS 50% glycerol (on request). State: Purified
Concentration:	0.5 mg/ml
Gene Name:	mannose receptor, C type 1
Database Link:	Entrez Gene 4360 Human



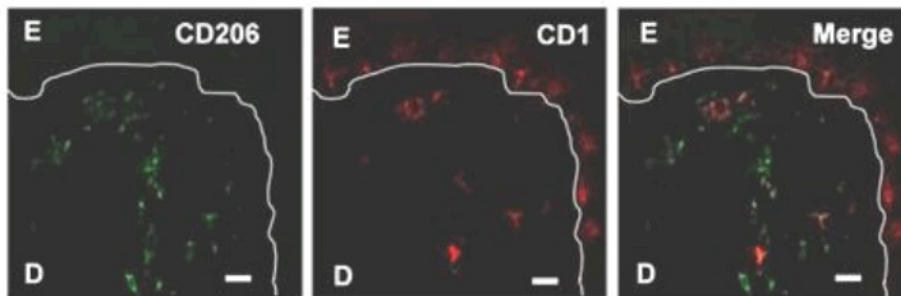
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Background:

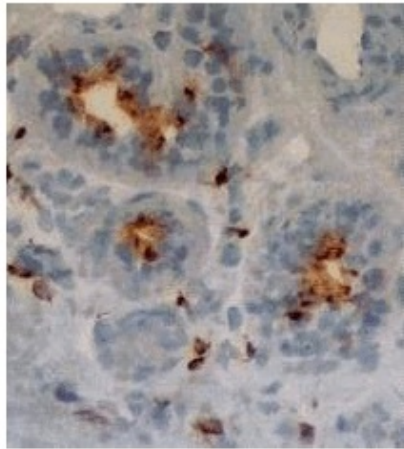
The mannose receptor (MR) /CD206 is a 175 kDa C-type lectin of type I, with 8 carbohydrate recognition domains (CRD) belonging to the pattern recognition receptors. It is an endocytic receptor of macrophages and endothelial cell subsets whose natural ligands include both self glycoproteins and microbial glycans. CD206 is predominantly expressed in tissue macrophages, myeloid dendritic cells, liver, skin, lymphoid organ and tumor. In humans, the MMR has been detected in cells located within the dermis, lamina propria, and T cell areas of the tonsil, in inflammatory epidermal DCs of atopic dermatitis patients, and in cells lining venous sinuses in the spleen. CD206 is also expressed by human CD14+ -derived DCs. mAb 122D2.08 was obtained after mice immunization with human dendritic cells. It recognizes large proteins (160-200kDa), and its binding to in vitro-generated DC is inhibited by cell preincubation with mannan, suggesting that 122D.08 is directed against the macrophage mannose receptor. The uptake of mannosylated proteins (expressed on bacteria and fungi) is important for the biologic function of DC. mAb 122D2.08 positively stains swine and sheep tissue sections (Schwartz-Cornil I, pers.communication) (Sallusto F. et al., 1995, J. Exp. Med., 182, 389-40; Wollenberg A. et al., J Invest Dermatol, 2002, 119, 5, 1096-102 ; Marquet F et al, PLoS ONE, vol 6 (1) e16320).

Synonyms:

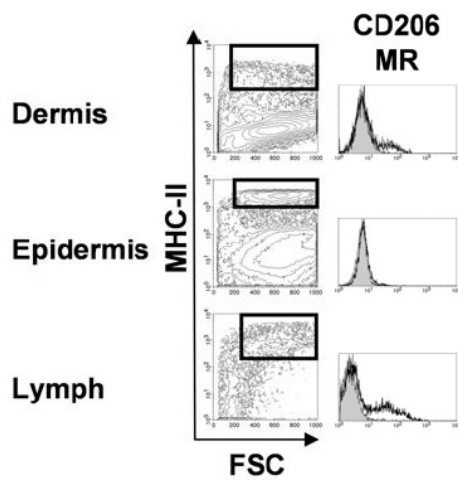
Macrophage mannose receptor, CLEC13D, CLEC13DL, MRC1L1

Product images:

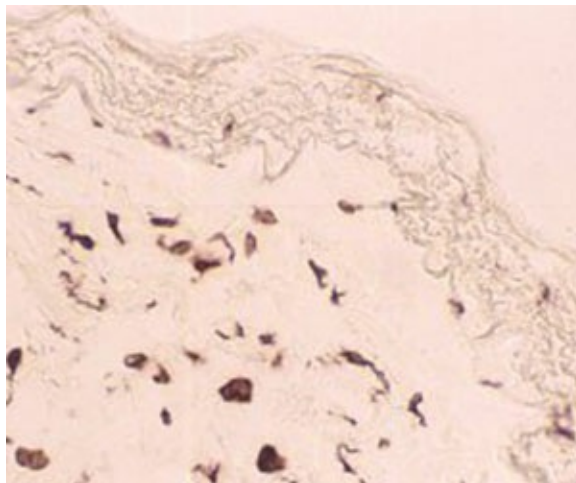
In situ staining of swine skin DCs



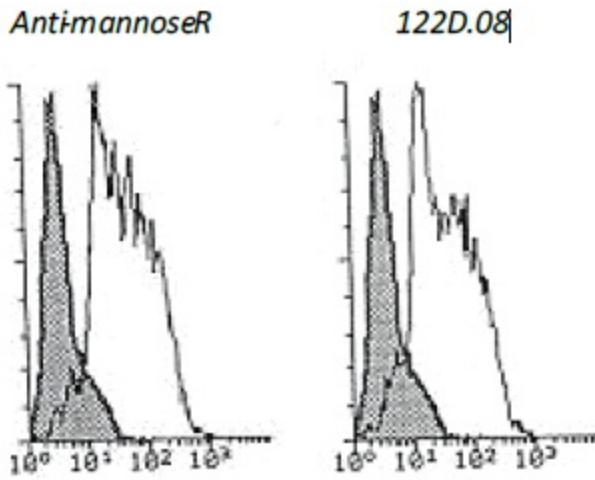
IHC on human skin cryosection



FACS staining of swine DC in skin and afferent lymph



IHC staining of human lung frozen section with clone 122D2 (DX0380)



FACS staining of human in vitro generated DCs