ARG55554
anti-CD206 / MMR antibody [15-2]

Package: 100 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [15-2] recognizes CD206 / MMR
Tested Reactivity	Hu, Ms
Tested Application	CyTOF®-candidate, FACS, FuncSt, ICC/IF, IHC-Fr, IP, WB
Specificity	This antibody recognizes an extracellular epitope of CD206 (macrophage mannose receptor, MMR), a 162-175 kDa type I transmembrane protein expressed mainly on macrophages, dendritic cells and hepatic or lymphatic endothelial cells, but not on monocytes.
Host	Mouse
Clonality	Monoclonal
Clone	15-2
Isotype	IgG1
Target Name	CD206 / MMR
Species	Human
Immunogen	Purified Human mannose receptor (NP_002429.1)
Conjugation	Un-conjugated
Alternate Names	CLEC13D; C-type lectin domain family 13 member D; Macrophage mannose receptor 1-like protein 1; C-type lectin domain family 13 member D-like; MMR; CLEC13DL; CD206; Macrophage mannose receptor 1; bA541I19.1; CD antigen CD206; MRC1L1

Application Instructions

Application table

Application	Dilution
CyTOF®-candidate	Assay-dependent
FACS	1 - 4 µg/ml
FuncSt	Assay-dependent
ICC/IF	Assay-dependent
IHC-Fr	1:25
IP	Assay-dependent
WB	Assay-dependent

Application Note

IHC-Fr: Incubate with the antibody at 4°C for overnight.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

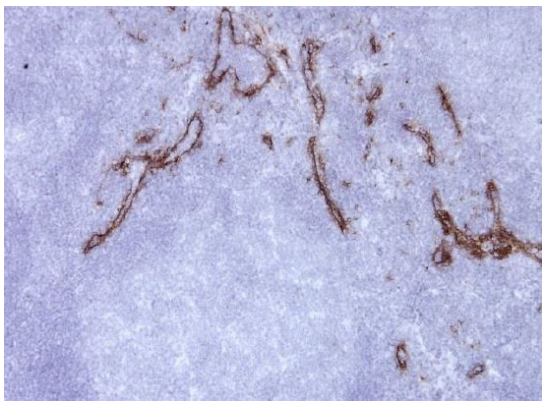
Form	Liquid

Purification	Purification with Protein A.
Purity	> 95% (by SDS-PAGE)
Buffer	PBS (pH 7.4) and 15 mM Sodium azide
Preservative	15 mM Sodium azide
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

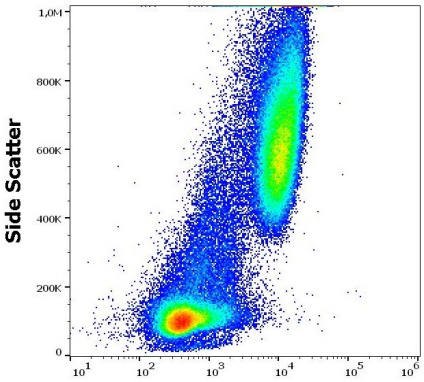
Database links	GeneID: 17533 Mouse GeneID: 4360 Human Swiss-port # P22897 Human Swiss-port # Q61830 Mouse
Gene Symbol	MRC1
Gene Full Name	mannose receptor, C type 1
Background	The recognition of complex carbohydrate structures on glycoproteins is an important part of several biological processes, including cell-cell recognition, serum glycoprotein turnover, and neutralization of pathogens. CD206 / MMR 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. [provided by RefSeq, Sep 2015]
Function	CD206 / MMR mediates the endocytosis of glycoproteins by macrophages. Binds both sulfated and non-sulfated polysaccharide chains. (Microbial infection) Acts as phagocytic receptor for bacteria, fungi and other pathogens. (Microbial infection) Acts as a receptor for Dengue virus envelope protein E. (Microbial infection) Interacts with Hepatitis B virus envelope protein. [UniProt]
Highlight	Related Antibody Duos and Panels: ARG30333 M1/M2/TAM Marker Antibody Panel Related products: CD206 antibodies; CD206 ELISA Kits; CD206 Duos / Panels; Anti-Mouse IgG secondary antibodies; Related news: CyTOF-candidate Antibodies New antibody panels and duos for Tumor immune microenvironment Tumor-Infiltrating Lymphocytes (TILs) Anti-SerpinB9 therapy, a new strategy for cancer therapy RIP1 activation and pathogenesis of NASH
Research Area	Immune System antibody; M1/M2/TAM Marker antibody; Macrophage Marker antibody; M2 Macrophage Marker antibody
Calculated Mw	166 kDa

Images



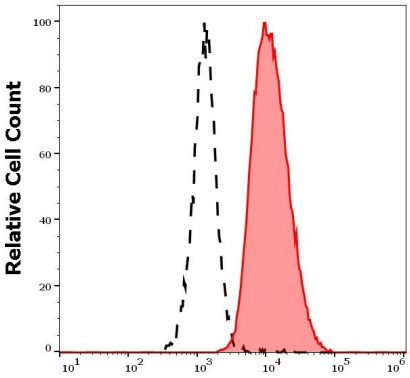
ARG55554 anti-CD206 / MMR antibody [15-2] IHC-Fr image

Immunohistochemistry: Frozen section of Human tonsil tissue stained with ARG55554 anti-CD206 / MMR antibody [15-2] at 1:25 dilution. The antibody stains endothelia of lymph vessels strongly.



ARG55554 anti-CD206 / MMR antibody [15-2] FACS image

Flow Cytometry: Stimulated (GM-CSF + IL-4) human peripheral blood mononuclear cells stained with ARG55554 anti-CD206 / MMR antibody [15-2] at 9 µg/ml dilution, followed by PE-conjugated Goat anti-Mouse antibody.



ARG55554 anti-CD206 / MMR antibody [15-2] FACS image

Flow Cytometry: Separation of human CD206 positive dendritic cells differentiated upon monocyte stimulation (GM-CSF + IL-4) (red-filled) from non-stimulated lymphocytes (black-dashed). Human stimulated (GM-CSF + IL-4) peripheral blood mononuclear cells stained with ARG55554 anti-CD206 / MMR antibody [15-2] at 9 µg/ml dilution, followed by PE-conjugated Goat anti-Mouse antibody.