ARG23126
anti-CD312 / EMR2 antibody [2A1]

Package: 100 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [2A1] recognizes CD312 / EMR2 Mouse anti Human CD312 antibody, clone 2A1 recognizes human EMR2, a member of the epidermal growth factor-seven transmembrane (EGF-TM7) family of proteins, which is closely related to CD97. EMR2, also known as CD312, is predominantly expressed on myeloid dendritic cells, monocytes and tissue macrophages. Various isoforms of EMR2 have been documented. The ligand for the largest isoform of EMR2 has recently been identified as chrondroitin sulphate, which binds to the fourth EGF-like module of EMR2. Clone 2A1 specifically recognizes the stalk region of EMR2.
Tested Reactivity	Hu
Tested Application	FACS, IHC-Fr, IP, WB
Host	Mouse
Clonality	Monoclonal
Clone	2A1
Isotype	IgG1
Target Name	CD312 / EMR2
Species	Human
Immunogen	NIH-3T3 cells stably transfected with EMR2 (EGF1-5) cDNA.
Conjugation	Un-conjugated
Alternate Names	CD antigen CD312; EGF-like module-containing mucin-like hormone receptor-like 2; EMR2; CD312; Adhesion G protein-coupled receptor E2; EGF-like module receptor 2

Application Instructions

Application table

Application	Dilution
FACS	1:50 - 1:200
IHC-Fr	1:50 - 1:200
IP	Assay-dependent
WB	Assay-dependent

Application Note: FACS: Use 10 µl of the suggested working dilution to label 10^6 cells in 100 µl.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

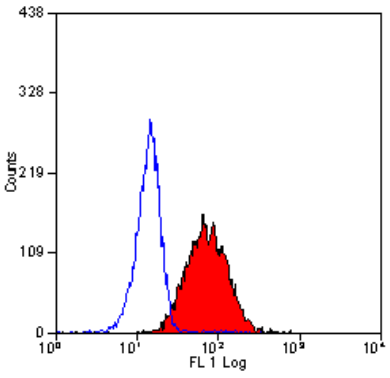
Form	Liquid
Purification	Purification with Protein A.
Buffer	PBS and 0.09% Sodium azide.

Preservative	0.09% 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

Gene Symbol	ADGRE2
Gene Full Name	adhesion G protein-coupled receptor E2
Background	This gene encodes a member of the class B seven-span transmembrane (TM7) subfamily of G-protein coupled receptors. These proteins are characterized by an extended extracellular region with a variable number of N-terminal epidermal growth factor-like domains coupled to a TM7 domain via a mucin-like spacer domain. The encoded protein is expressed mainly in myeloid cells where it promotes cell-cell adhesion through interaction with chondroitin sulfate chains. This gene is situated in a cluster of related genes on chromosome 19. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Aug 2012]
Function	Cell surface receptor that binds to the chondroitin sulfate moiety of glycosaminoglycan chains and promotes cell attachment. Promotes granulocyte chemotaxis, degranulation and adhesion. In macrophages, promotes the release of inflammatory cytokines, including IL8 and TNF. Signals probably through G-proteins. [UniProt]
Calculated Mw	90 kDa
PTM	Autoproteolytically cleaved into 2 subunits, an extracellular alpha subunit and a seven-transmembrane beta subunit. [UniProt]

Images



ARG23126 anti-CD312 / EMR2 antibody [2A1] FACS image

Flow Cytometry: Human peripheral blood granulocytes stained with ARG23126 anti-CD312 / EMR2 antibody [2A1].