ARG62953
anti-CD97 antibody [MEM-180]

Package: 100 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [MEM-180] recognizes CD97
Tested Reactivity	Hu
Tested Application	FACS, IP
Specificity	The clone MEM-180 recognizes an unique epitope on CD97, a 75-85 kDa surface glycoprotein of G-protein-coupled receptor family, expressed on activated B and T lymphocytes, monocytes/macrophages, dendritic cells and granulocytes. HLDA VI; WS Code BP 415 HLDA VI; WS Code NL N-L023
Host	Mouse
Clonality	Monoclonal
Clone	MEM-180
Isotype	IgG1
Target Name	CD97
Immunogen	PHA-activated peripheral blood cells
Conjugation	Un-conjugated
Alternate Names	CD97; Leukocyte antigen CD97; CD97 antigen; CD antigen CD97; TM7LN1

Application Instructions

Application table

Application	Dilution
FACS	5 µg/ml
IP	Assay-dependent

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

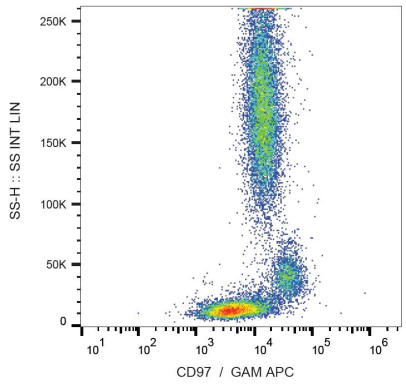
Form	Liquid
Purification	Purified from ascites by protein-A affinity chromatography.
Purity	> 95% (by SDS-PAGE)
Buffer	PBS (pH 7.4) and 15 mM Sodium azide
Preservative	15 mM Sodium azide
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. 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: 976 Human Swiss-port # P48960 Human
Gene Symbol	ADGRE5
Gene Full Name	adhesion G protein-coupled receptor E5
Background	CD97 is a G-protein-coupled seven-span transmembrane adhesive receptor that is constitutively expressed on granulocytes and monocytes and rapidly upregulated on T and B cells upon activation. CD97 is produced in alternatively spliced forms and its cellular ligand is CD55 (DAF), which protects various cell types from complement-mediated damage. Interaction of CD97 on leukocytes and CD55 on vessel cells probably facilitate leukocyte activation and migration into the tissues, similarly, CD97 seems to play a role in tumour migration and invasiveness. CD97 is involved in T cell regulation and peripheral granulocyte homeostasis.
Function	Receptor potentially involved in both adhesion and signaling processes early after leukocyte activation. Plays an essential role in leukocyte migration (By similarity). [UniProt]
Research Area	Developmental Biology antibody; Immune System antibody; Neuroscience antibody; Signaling Transduction antibody
Calculated Mw	92 kDa
PTM	Proteolytically cleaved into 2 subunits, an extracellular alpha subunit and a seven-transmembrane subunit.

Images



ARG62953 anti-CD97 antibody [MEM-180] FACS image

Flow Cytometry: Human peripheral blood stained with ARG62953 anti-CD97 antibody [MEM-180], followed by incubation with APC labelled Goat anti-Mouse secondary antibody.