

ARG62883 anti-CD53 antibody [MEM-53]

Package: 100 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [MEM-53] recognizes CD53
Tested Reactivity	Hu
Tested Application	FACS, FuncSt, IHC-Fr, IP, WB
Specificity	The clone MEM-53 reacts with CD53, a 32-40 kDa tetraspanin family glycoprotein exclusively expressed on leukocytes; it is not present on platelets, red blood cells and non-hematopoietic cells. MEM-53 reacts also with deglycosylated molecule (molecular weight of the antigen is reduced by 15 kDa using endoglycosidase F). HLDA IV; WS Code NL 59 HLDA V; WS Code B CD53.5 HLDA V; WS Code BP BP287 HLDA V; WS Code T T-096 HLDA V; WS Code X XB004
Host	Mouse
Clonality	Monoclonal
Clone	MEM-53
Isotype	IgG1
Target Name	CD53
Immunogen	Leukocytes of patient suffering from a LGL-type leukemia.
Conjugation	Un-conjugated
Alternate Names	Tetraspanin-25; Leukocyte surface antigen CD53; Tspan-25; Cell surface glycoprotein CD53; CD antigen CD53; MOX44; TSPAN25

Application Instructions

Application table	Application	Dilution
	FACS	4 µg/ml
	FuncSt	Assay-dependent
	IHC-Fr	Assay-dependent
	IP	Assay-dependent
	WB	Assay-dependent

Application Note

IHC-Fr: It is suitable for discrimination of lymphomas from other tumors.
Functional studies: The clone MEM-53 induces activation of monocytes and B lymphocytes.
* 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: 963 Human Swiss-port # P19397 Human
Gene Symbol	CD53
Gene Full Name	CD53 molecule
Background	CD53 is a tetraspanin family transmembrane glycoprotein expressed in the lymphoid-myeloid lineage. This molecule has been reported to form complexes with other leukocyte surface proteins such as CD2, CD19, CD21, MHC II, VLA-4 or tetraspanins CD37, CD81 and CD82, thus probably modulating various signaling processes. CD53 is involved in radioresistance of tumour cells and its triggering has anti-apoptotic effect. In thymus, CD53 is up-regulated in response to positive selection signals during T cell development, and is strongly expressed upon macrophage exposure to bacterial lipopolysaccharide, whereas stimulation of neutrophils results in down-regulation of CD53 expression.
Function	Required for efficient formation of myofibers in regenerating muscle at the level of cell fusion. May be involved in growth regulation in hematopoietic cells (By similarity). [UniProt]
Research Area	Immune System antibody; Signaling Transduction antibody
Calculated Mw	24 kDa