

## ARG62848 anti-CD43 antibody [MEM-59]

Package: 100 µg  
Store at: -20°C

### Summary

Product Description	Mouse Monoclonal antibody [MEM-59] recognizes CD43
Tested Reactivity	Hu
Tested Application	FACS, FuncSt, IHC-P, IP, WB
Specificity	The clone MEM-59 recognizes neuraminidase-sensitive epitope on CD43 (Leukosialin), a 95-135 kDa type I transmembrane glycoprotein (mucin-type) which is involved in lymphocyte activation. CD43 is expressed by platelets and at high levels on the surface of all leukocytes; it is negative on resting B lymphocytes and erythrocytes. HLDA IV; WS Code NL 604 HLDA V; WS Code AS S290
Host	Mouse
Clonality	Monoclonal
Clone	MEM-59
Isotype	IgG1
Target Name	CD43
Species	Human
Immunogen	Human T lymphocytes.
Conjugation	Un-conjugated
Alternate Names	CD antigen CD43; B-cell differentiation antigen LP-3; Sialophorin; Cd43; Galgp; A630014B01Rik; Ly-48; Lymphocyte antigen 48; Ly48; Leukocyte sialoglycoprotein; Leukosialin

### Application Instructions

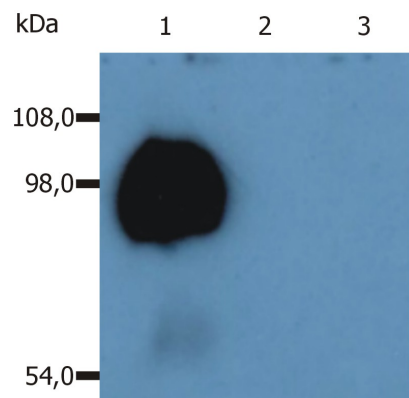
Application table	Application	Dilution
	FACS	1 µg/ml
	FuncSt	Assay-dependent
	IHC-P	10 µg/ml
	IP	Assay-dependent
	WB	Assay-dependent
Application Note	Functional studies: The clone MEM-59 activates T lymphocytes and also induces apoptosis in hemopoietic progenitor cells. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	IHC-P: Spleen, thymus and tonsil.	

### 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.

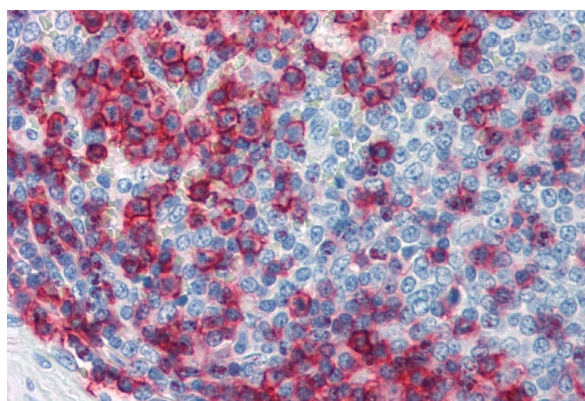
## Bioinformation

Database links	<a href="#">GeneID: 6693 Human</a>  <a href="#">Swiss-port # P16150 Human</a>
Gene Symbol	SPN
Gene Full Name	sialophorin
Background	CD43 (leukosialin, sialophorin) is a transmembrane mucin-like protein with high negative charge, expressed on the surface of most hematopoietic cells. CD43 contributes to a repulsive barrier that interferes with cellular adhesion, however, in certain cases also promotes leukocyte aggregation. By interaction with actin-binding proteins ezrin and moesin CD43 plays a regulatory role in remodeling T-cell morphology and regulates cell-cell interactions during lymphocyte traffic. CD43 signaling both enhances LFA-1 adhesiveness and counteracts LFA-1 induction via other receptors. Expression of CD43 causes induction of functionally active tumour suppressor p53 protein, but in case of p53 and ARF deficiency CD43 promotes tumour proliferation and viability. It appears to be an important modulator of leukocyte functions.
Function	One of the major glycoproteins of thymocytes and T lymphocytes. Plays a role in the physicochemical properties of the T-cell surface and in lectin binding. Presents carbohydrate ligands to selectins. Has an extended rodlike structure that could protrude above the glycocalyx of the cell and allow multiple glycan chains to be accessible for binding. Is a counter-receptor for SN/Siglec-1 (By similarity). During T-cell activation is actively removed from the T-cell-APC (antigen-presenting cell) contact site thus suggesting a negative regulatory role in adaptive immune response (By similarity). [UniProt]
Highlight	Related products: <a href="#">CD43 antibodies; Anti-Mouse IgG secondary antibodies;</a> Related news: <a href="#">Lymphoma</a>
Research Area	Developmental Biology antibody; Immune System antibody
Calculated Mw	40 kDa



ARG62848 anti-CD43 antibody [MEM-59] WB image

Western blot: 1) Human, 2) Canine, and 3) Porcine PBL lysates stained with ARG62848 anti-CD43 antibody [MEM-59].



ARG62848 anti-CD43 antibody [MEM-59] IHC-P image

Immunohistochemistry: Human spleen (paraffin sections) stained with ARG62848 anti-CD43 antibody [MEM-59].