

## ARG62900 anti-CD59 antibody [MEM-43]

Package: 100 μg Store at: -20°C

# Summary

Product DescriptionMouse Monoclonal antibody [MEM-43] recognizes CD59Tested ReactivityHuTested ApplicationFACS, IHC-P, IPSpecificityThe clone MEM-43 reacts with well defined epitope (W40, R-53) on CD59 (Protectin), an 18-20 kDa glycosylphosphatidylinositol (GPI)-anchored glycoprotein expressed on all hematopoletic cells; it is widely present on cells in all tissues. HLDA V; WS Code NJ 705 HLDA V; WS Code AS 5013 HLDA V; WS Code TT-103HostMouseClonalityMonoclonalGlonalityIgG2aTarget NameIgG2aImmunogenUn-conjugatedImmunogenUn-conjugatedAlternate NamesR30; MIRL; Membrane attack complex inhibition factor; CD antigen CD59; El16; Membrane inhibitor of scaticy inforces prescription in S43; 20 kDB homolenous restriction factor;		
Tested ApplicationFACS, IHC-P, IPSpecificityThe clone MEM-43 reacts with well defined epitope (W40, R-53) on CD59 (Protectin), an 18-20 kDa glycosylphosphatidylinositol (GPI)-anchored glycoprotein expressed on all hematopoietic cells; it is widely present on cells in all tissues. HLDA V; WS Code NZ 705 ShuDA V; WS Code AS 2013 HLDA V; WS Code BP BP345 HLDA V; WS Code T T-103HostMouseClonalityMonoclonalCloneMEM-43IsotypeIg62aTarget NameCD59ImmunogenIn-conjugatedAlternate NamesEJ30; MIRL; Membrane attack complex inhibition factor; CD antigen CD59; E116; Membrane inhibitor of reactive lysis; MIC11; E132; HRF20; MER-20; MEM-3 antigen; MIN1; MIN2; MIN3; 1F5 antigen; 1F5; MCIF; MAC-IP; MSK21; Protectin; G344; p18-20; CD59 glycoprotein; MEM-3; MAC-inhibitory protein;	Product Description	Mouse Monoclonal antibody [MEM-43] recognizes CD59
SpecificityThe Constraint of Cons	Tested Reactivity	Hu
Bis and the second se	Tested Application	FACS, IHC-P, IP
ClonalityMonoclonalCloneMEM-43IsotypeIgG2aTarget NameCD59ImmunogenThymocytes and T lymphocytesConjugationUn-conjugatedAlternate NamesEJ30; MIRL; Membrane attack complex inhibition factor; CD antigen CD59; EJ16; Membrane inhibitor of reactive lysis; MIC11; EL32; HRF-20; MEM43 antigen; MIN1; MIN2; MIN3; 1F5 antigen; 1F5; MACLF; MAC-IP; MSK21; Protectin; G344; p18-20; CD59 glycoprotein; MEM43; MAC-inhibitory protein;	Specificity	glycosylphosphatidylinositol (GPI)-anchored glycoprotein expressed on all hematopoietic cells; it is widely present on cells in all tissues. HLDA IV; WS Code NL 705 HLDA V; WS Code AS S013 HLDA V; WS Code BP BP345
CloneMEM-43IsotypeIgG2aTarget NameCD59ImmunogenThymocytes and T lymphocytesConjugationUn-conjugatedAlternate NamesEJ30; MIRL; Membrane attack complex inhibition factor; CD antigen CD59; EJ16; Membrane inhibitor of reactive lysis; MIC11; EL32; HRF20; HRF-20; MEM43 antigen; MIN1; MIN2; MIN3; 1F5 antigen; 1F5; MACIF; MAC-IP; MSK21; Protectin; G344; p18-20; CD59 glycoprotein; MEM43; MAC-inhibitory protein;	Host	Mouse
IsotypeIgG2aTarget NameCD59ImmunogenThymocytes and T lymphocytesConjugationUn-conjugatedAlternate NamesEJ30; MIRL; Membrane attack complex inhibition factor; CD antigen CD59; EJ16; Membrane inhibitor of reactive lysis; MIC11; EL32; HRF20; HRF-20; MEM43 antigen; MIN1; MIN2; MIN3; 1F5 antigen; 1F5; MACIF; MAC-IP; MSK21; Protectin; G344; p18-20; CD59 glycoprotein; MEM43; MAC-inhibitory protein;	Clonality	Monoclonal
Target NameCD59ImmunogenThymocytes and T lymphocytesConjugationUn-conjugatedAlternate NamesEJ30; MIRL; Membrane attack complex inhibition factor; CD antigen CD59; EJ16; Membrane inhibitor of reactive lysis; MIC11; EL32; HRF20; HRF-20; MEM43 antigen; MIN1; MIN2; MIN3; 1F5 antigen; 1F5; MACIF; MAC-IP; MSK21; Protectin; G344; p18-20; CD59 glycoprotein; MEM43; MAC-inhibitory protein;	Clone	MEM-43
ImmunogenThymocytes and T lymphocytesConjugationUn-conjugatedAlternate NamesEJ30; MIRL; Membrane attack complex inhibition factor; CD antigen CD59; EJ16; Membrane inhibitor of reactive lysis; MIC11; EL32; HRF20; HRF-20; MEM43 antigen; MIN1; MIN2; MIN3; 1F5 antigen; 1F5; MACIF; MAC-IP; MSK21; Protectin; G344; p18-20; CD59 glycoprotein; MEM43; MAC-inhibitory protein;	Isotype	lgG2a
ConjugationUn-conjugatedAlternate NamesEJ30; MIRL; Membrane attack complex inhibition factor; CD antigen CD59; EJ16; Membrane inhibitor of reactive lysis; MIC11; EL32; HRF20; HRF-20; MEM43 antigen; MIN1; MIN2; MIN3; 1F5 antigen; 1F5; MACIF; MAC-IP; MSK21; Protectin; G344; p18-20; CD59 glycoprotein; MEM43; MAC-inhibitory protein;	Target Name	CD59
Alternate NamesEJ30; MIRL; Membrane attack complex inhibition factor; CD antigen CD59; EJ16; Membrane inhibitor of reactive lysis; MIC11; EL32; HRF20; HRF-20; MEM43 antigen; MIN1; MIN2; MIN3; 1F5 antigen; 1F5; MACIF; MAC-IP; MSK21; Protectin; G344; p18-20; CD59 glycoprotein; MEM43; MAC-inhibitory protein;	Immunogen	Thymocytes and T lymphocytes
reactive lysis; MIC11; EL32; HRF20; HRF-20; MEM43 antigen; MIN1; MIN2; MIN3; 1F5 antigen; 1F5; MACIF; MAC-IP; MSK21; Protectin; G344; p18-20; CD59 glycoprotein; MEM43; MAC-inhibitory protein;	Conjugation	Un-conjugated
	Alternate Names	reactive lysis; MIC11; EL32; HRF20; HRF-20; MEM43 antigen; MIN1; MIN2; MIN3; 1F5 antigen; 1F5;

### **Application Instructions**

Application table	Application	Dilution
	FACS	1 - 2 μg/ml
	IHC-P	10 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.	
Positive Control	IHC-P: Placenta	

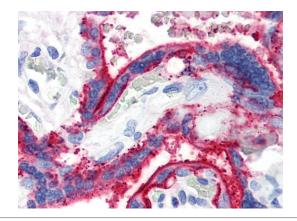
### Properties

Form	Liquid
Purification	Purified from hybridoma culture supernatant 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	GenelD: 966 Human
	Swiss-port # P13987 Human
Gene Symbol	CD59
Gene Full Name	CD59 molecule, complement regulatory protein
Background	CD59 (Protectin) is a small (18-20 kDa) GPI-anchored ubiquitously expressed inhibitor of the membrane attack complex (MAC). It is thus the key regulator that preserves the autologous cells from terminal effector mechanism of the complement cascade. CD59 associates with C5b-8 complex and thereby counteracts appropriate formation of cytolytic pore within the plasma membrane. CD59 is also an low-affinity ligand of human CD2 and causes T cell costimulation.
Function	Potent inhibitor of the complement membrane attack complex (MAC) action. Acts by binding to the C8 and/or C9 complements of the assembling MAC, thereby preventing incorporation of the multiple copies of C9 required for complete formation of the osmolytic pore. This inhibitor appears to be species-specific. Involved in signal transduction for T-cell activation complexed to a protein tyrosine kinase. The soluble form from urine retains its specific complement binding activity, but exhibits greatly reduced ability to inhibit MAC assembly on cell membranes. [UniProt]
Research Area	Cell Biology and Cellular Response antibody; Developmental Biology antibody; Immune System antibody; Signaling Transduction antibody
Calculated Mw	14 kDa
ΡΤΜ	N- and O-glycosylated. The N-glycosylation mainly consists of a family of biantennary complex-type structures with and without lactosamine extensions and outer arm fucose residues. Also significant amounts of triantennary complexes (22%). Variable sialylation also present in the Asn-43 oligosaccharide. The predominant O-glycans are mono-sialylated forms of the disaccharide, Galbeta-1,3GalNAc, and their sites of attachment are probably on Thr-76 and Thr-77. The GPI-anchor of soluble urinary CD59 has no inositol-associated phospholipid, but is composed of seven different GPI-anchor variants of one or more monosaccharide units. Major variants contain sialic acid, mannose and glucosamine. Sialic acid linked to an N-acetylhexosamine-galactose arm is present in two variants. Glycated. Glycation is found in diabetic subjects, but only at minimal levels in nondiabetic subjects. Glycated CD59 lacks MAC-inhibitory function and confers to vascular complications of diabetes.



#### ARG62900 anti-CD59 antibody [MEM-43] IHC-P image

Immunohistochemistry: Paraffin-embedded Human placenta tissue stained with ARG62900 anti-CD59 antibody [MEM-43].