

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 | |
| | | |

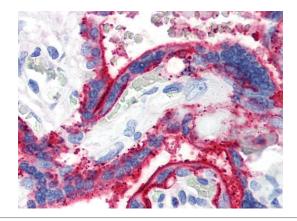
Properties

| 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].