ARG62767
anti-CD20 antibody [MEM-97]

Package: 100 µg, 50 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [MEM-97] recognizes CD20
Tested Reactivity	Hu, Bov, Pig
Tested Application	FACS, IP
Specificity	The clone MEM-97 reacts with CD20 (Bp35), a 33-37 kDa non-glycosylated membrane receptor with four transmembrane domains, expressed on B lymphocytes (it is lost on plasma cells), follicular dendritic cells, and at low levels on peripheral blood T lymphocytes. HLDA V; WS Code B CD20.9
Host	Mouse
Clonality	Monoclonal
Clone	MEM-97
Isotype	IgG1
Target Name	CD20
Species	Human
Immunogen	Raji human Burkitt's lymphoma cell line
Conjugation	Un-conjugated
Alternate Names	Bp35; LEU-16; B-lymphocyte surface antigen B1; B-lymphocyte antigen CD20; CD20; S7; CD antigen CD20; Leukocyte surface antigen Leu-16; B1; CVID5; Membrane-spanning 4-domains subfamily A member 1; MS4A2

Application Instructions

Application table

Application	Dilution
FACS	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.

Properties

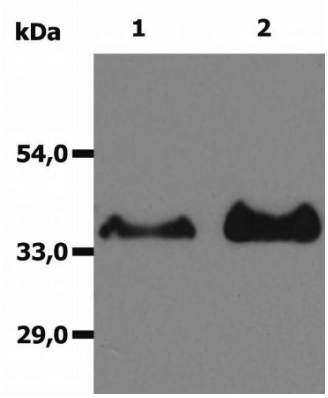
Form	Liquid
Purification	Purified from ascites by protein-A affinity chromatography.
Purity	> 95% (by SDS-PAGE)
Buffer	PBS (pH 7.4) and 15 mM Sodium azide
Preservative	15 mM Sodium azide
Concentration	1 mg/ml

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

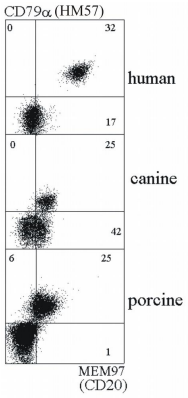
Database links	GeneID: 931 Human Swiss-port # P11836 Human
Gene Symbol	MS4A1
Gene Full Name	membrane-spanning 4-domains, subfamily A, member 1
Background	CD20 is a member of the membrane-spanning 4A gene family. Members of this nascent protein family are characterized by common structural features and similar intron/exon splice boundaries and display unique expression patterns among hematopoietic cells and nonlymphoid tissues. This gene encodes a B-lymphocyte surface molecule which plays a role in the development and differentiation of B-cells into plasma cells. This family member is localized to 11q12, among a cluster of family members. Alternative splicing of this gene results in two transcript variants which encode the same protein. [provided by RefSeq, Jul 2008]
Function	CD20 is a B-lymphocyte-specific membrane protein. It plays a role in the regulation of cellular calcium influx necessary for the development, differentiation, and activation of B-lymphocytes (PubMed:3925015, PubMed:7684739, PubMed:12920111). Functions as a store-operated calcium (SOC) channel component promoting calcium influx after activation by the B-cell receptor/BCR (PubMed:7684739, PubMed:12920111, PubMed:18474602). [UniProt]
Highlight	Related Antibody Duos and Panels: ARG30308 Immature B Cell Marker Antibody Panel (CD19, CD20, CD22, IgM Fc) (FACS) Related products: CD20 antibodies; CD20 ELISA Kits; CD20 Duos / Panels; Anti-Mouse IgG secondary antibodies; Related news: New antibody panels and duos for Tumor immune microenvironment Tumor-Infiltrating Lymphocytes (TILs) Exploring Antiviral Immune Response
Research Area	Cancer antibody; Developmental Biology antibody; Immune System antibody; B cell Marker antibody; Immature B Cell Marker antibody; Inflammatory Cell Marker antibody; Tumor-infiltrating Lymphocyte Study antibody
Calculated Mw	33 kDa
PTM	Phosphorylated. Might be functionally regulated by protein kinase(s).

Images



ARG62767 anti-CD20 antibody [MEM-97] IP image

Immunoprecipitation: Immunoprecipitation of human CD20 from the whole cell lysate of Raji cells.
1) original lysate of Raji cells, and 2) same cells immunoprecipitate by ARG62767 anti-CD20 antibody [MEM-97].
Western blot was stained with anti-CD20 rabbit polyclonal antibody.
.



ARG62767 anti-CD20 antibody [MEM-97] FACS image

Flow Cytometry: Human, canine and porcine B lymphocytes double stained with ARG62767 anti-CD20 antibody [MEM-97] and anti-CD79a antibody [HM57].