

ARG62770 anti-CD20 antibody [LT20] (FITC)

Package: 100 tests
Store at: 4°C

Summary

Product Description	FITC-conjugated Mouse Monoclonal antibody [LT20] recognizes CD20
Tested Reactivity	Hu
Tested Application	FACS
Specificity	The clone LT20 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.
Host	Mouse
Clonality	Monoclonal
Clone	LT20
Isotype	IgG2a
Target Name	CD20
Species	Human
Immunogen	Normal human lymphocytes from lymph node.
Conjugation	FITC
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	20 µl / 10 ⁶ cells
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

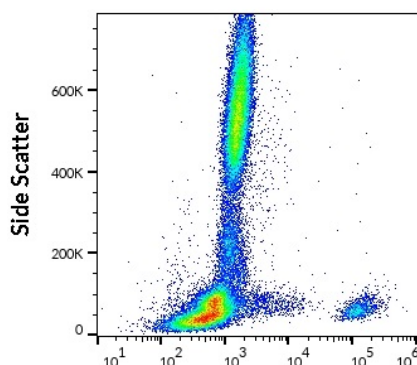
Properties

Form	Liquid
Purification Note	The purified antibody is conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions. The reagent is free of unconjugated FITC and adjusted for direct use. No reconstitution is necessary.
Buffer	PBS, 15 mM Sodium azide and 0.2% (w/v) high-grade protease free BSA
Preservative	15 mM Sodium azide
Stabilizer	0.2% (w/v) high-grade protease free BSA
Storage instruction	Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Bioinformation

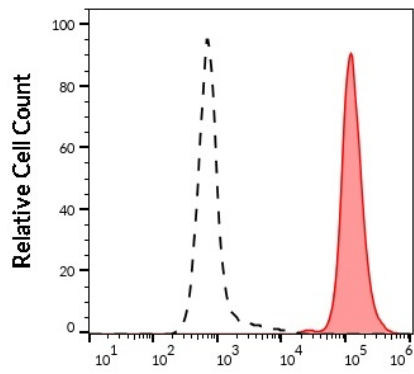
Database links	GeneID: 931 Human Swiss-port # P11836 Human
Gene Symbol	MS4A1
Gene Full Name	membrane-spanning 4-domains, subfamily A, member 1
Background	<p>CD20 is a member of the membrane-spanning 4A gene family. Members of this nascent protein family are characterized by common structural features 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]</p>
Function	<p>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]</p>
Highlight	<p>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</p>
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



ARG62770 anti-CD20 antibody [LT20] (FITC) FACS image

Flow Cytometry: Human peripheral whole blood stained with ARG62770 anti-CD20 antibody [LT20] (FITC) (20 µl reagent / 100 µl of peripheral whole blood).



ARG62770 anti-CD20 antibody [LT20] (FITC) FACS image

Flow Cytometry: Separation of human CD20 positive lymphocytes (red-filled) from neutrophil granulocytes (black-dashed), Human peripheral whole blood stained with ARG62770 anti-CD20 antibody [LT20] (FITC) (20 µl reagent / 100 µl of peripheral whole blood).