

Anti-MS4A1 Neutralizing Antibody (V3S-0622-YC4947)

Cat. No.: V3S-0622-YC4947

Summary

Description	This product is a monoclonal antibody derived from mouse, which can specifically recognize MS4A1. The antibody is expressed with mammalian cell transient expression system, serum-free and purified by affinity chromatography. The purity and integrity are tested via SDS-PAGE and SEC-HPLC analysis. Given an antigen, additional QC measures are also desired such as affinity testing and binding validation. Specifically, the antibody is provided in multiple formats for in vivo and in vitro assays. The <i>In vivo</i> version features greater than 95% purity, ultra-low endotoxin levels (<1 EU/mg or 0.1 E U/mg), and is preservative, stabilizer, and carrier protein-free.
Clonality	Monoclonal
Host Species	Mouse
Target Species	Human
Immunogen	SB cells and CD20/CHO cells
Isotype	IgG1 kappa
Isotype Control	C60052
Secondary Antibody	C47504; C37557; C41360; C32672; C10001

Property

Expression Species	HEK293F or CHO
Conjugation	None
Purity	>95%, determined by SDS-PAGE and/or SEC-HPLC
Endotoxin	<1 EU/mg, determined by LAL method
Purification	Protein A affinity purified
Sterility	0.2 µM filtered
Formulation	PBS, pH 7.4
Preservation	No preservatives
Stabilizer	No stabilizers
Storage	Store at 4°C within a week. For longer storage, aliquot and store at -20°C.

For lab research use only, not for diagnostic, therapeutic or any *in vivo* human use.

Applications

Application	FuncS
Application Notes	The antibody is recommended for detection of MS4A1 by FuncS assay.

Target

Target	MS4A1
Alternative Name	B1; S7; Bp35; CD20; CVID5; MS4A2; LEU-16
Gene ID	931
UniProt	P11836
Introduction	This gene encodes 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 non-lymphoid 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]
Research Area	Immunology; Stem Cell
Proceedings of R&D	Diseases associated with MS4A1 include Immunodeficiency, Common Variable, 5 and Common Variable Immunodeficiency. Among its related pathways are Hematopoietic Stem Cell Differentiation Pathways and Lineage-specific Markers and Hematopoietic cell lineage. Gene Ontology (GO) annotations related to this gene include epidermal growth factor receptor binding and MHC class II protein complex binding. An important paralog of this gene is MS4A8.

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