

CUSABIO TECHNOLOGY LLC

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MS4A1 Recombinant Monoclonal Antibody

Product Code	CSB-RA015007MA4HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P11836
Immunogen	Recombinant Human MS4A1 protein
Species Reactivity	Human
Tested Applications	ELISA, IHC, IF; Recommended dilution: IHC:1:20-1:200, IF:1:20-1:200
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Purification Method	Affinity-chromatography
lsotype	Mouse IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Cancer;Immunology;Stem cells
Gene Names	MS4A1
Clone No.	23H3
Image	



IHC image of CSB-

RA015007MA4HU diluted at 1:200 and staining i n paraffin-

embedded human tonsil tissue performed on a L eica BondTM system. After dewaxing and hydrati on, antigen retrieval was mediated by high press ure in a citrate buffer (pH 6.0). Section was block ed with 10% normal goat serum 30min at RT. Th en primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-

Mouse IgG labeled by HRP and visualized using 0.05% DAB.

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Immunofluorescence staining of Hela cell with C SB-RA015007MA4HU at 1:150, counterstained with DAPI. The cells were fixed in 4% for maldehyde and blocked in 10% normal Goat Ser um. The cells were then incubated with the antib ody overnight at 4C. The secondary antibody wa s FITC-conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunofluorescence staining of MCF7 cell with CSB-RA015007MA4HU at 1:150, counterstained with DAPI. The cells were fixed in 4% for maldehyde and blocked in 10% normal Goat Ser um. The cells were then incubated with the antib ody overnight at 4C. The secondary antibody wa s FITC-conjugated AffiniPure Goat Anti-Mouse IgG(H+L).

Description

The process for generating the MS4A1 recombinant monoclonal antibody involves obtaining the MS4A1 antibody genes, introducing these genes into suitable host cells, and utilizing a cellular expression and translation system to synthesize the MS4A1 antibodies. This method offers significant advantages, including enhanced purity and stability of the resulting MS4A1 recombinant monoclonal antibodies, as well as improved antibody affinity and specificity. The MS4A1 recombinant monoclonal antibody is subjected to purification using affinity chromatography and undergoes thorough testing through ELISA, IHC, and IF assays. It is noteworthy that this antibody exclusively targets the human MS4A1 protein.

The main role of the MS4A1 protein (CD20) is to serve as a cell surface marker on B cells, where it contributes to B cell activation and is a key target for therapeutic interventions in B cell-related diseases and autoimmune conditions.