

Human IgM Rabbit mAb

Catalog No: #49395



Package Size: #49395-1 50ul #49395-2 100ul

Orders: [order@signalwayantibody.com](mailto:order@signalwayantibody.com)  
Support: [tech@signalwayantibody.com](mailto:tech@signalwayantibody.com)

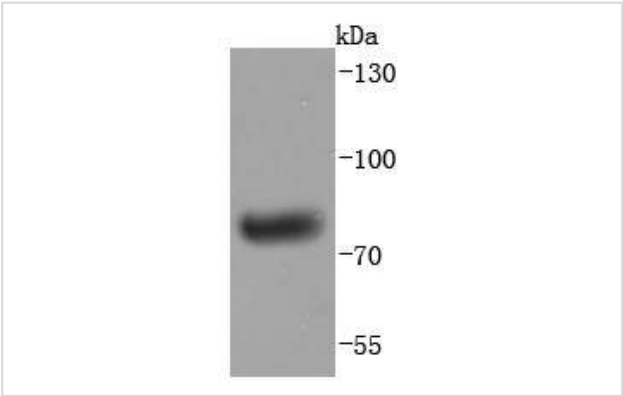
Description

Product Name	Human IgM Rabbit mAb
Clone No.	SR4540
Purification	ProA affinity purified
Applications	WB;IHC;ICC/IF;IP;FC
Species Reactivity	Hu
Immunogen Description	recombinant protein
Other Names	Immunoglobulin heavy chain constant region mu edit item name - Immunoglobulin heavy chain mu constant region antibody Immunoglobulin heavy chain constant region mu antibody AGM1 antibody Constant region of heavy chain of IgM antibody DKFZp686l15196 antibody DKFZp686l15212 antibody FLJ00385 antibody Ig mu chain C region antibody IGHM antibody IgM heavy chain constant region antibody Immunoglobulin heavy constant mu antibody Immunoglobulin mu antibody MGC104996 antibody MGC52291 antibody MU antibody VH antibody
Accession No.	Swiss-Prot#:P01871
Uniprot	P01871
Calculated MW	75 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

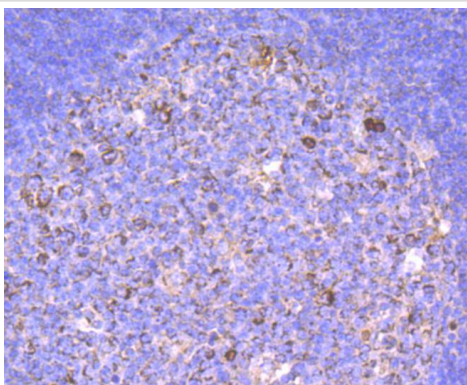
Application Details

WB: 1:1,000-5,000  
IHC: 1:50-1:200

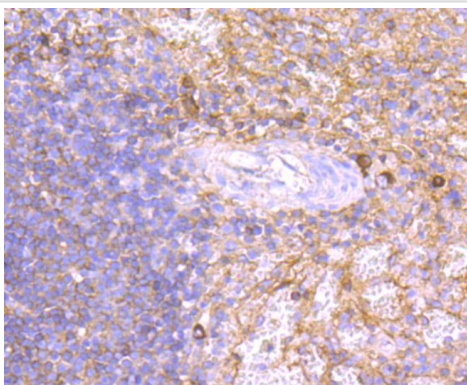
Images



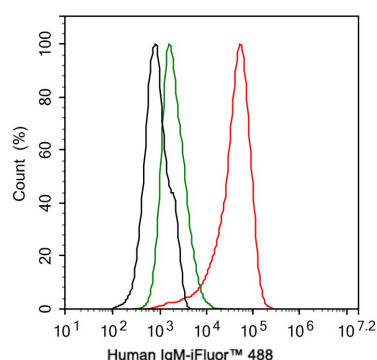
Western blot analysis of Human IgM on human plasma lysates using anti-Human IgM antibody at 1/1,000 dilution.



Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-Human IgM antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded human spleen tissue using anti-Human IgM antibody. Counter stained with hematoxylin.



Flow cytometric analysis of Daudi cells labeling Human IgM. Cells were fixed and permeabilized. Then stained with the primary antibody ( 1ug/mL) (red) compared with Rabbit IgG Isotype Control (green). After incubation of the primary antibody at +4°C for an hour, the cells were stained with a iFluor 488 conjugate-Goat anti-Rabbit IgG Secondary antibody at 1/1,000 dilution for 30 minutes at +4°C. Unlabelled sample was used as a control (cells without incubation with primary antibody; black).

## Background

Immunoglobulin M (IgM) is the largest circulating antibody molecule in humans. It consists of a heavy chain ( $\gamma$ -chain) and a light chain ( $\kappa$ - or  $\lambda$ -chain), as well as 5 base units and 10 binding sites, though it cannot bind all 10 simultaneously because of steric hindrance. IgM chain C refers to the constant region of the IgM heavy chain that is involved in immune regulation. IgM forms polymers by covalently linking multiple immunoglobulins together with disulfide bonds. It normally exists as a pentamer, but occasionally as a hexamer. Because of its polymeric nature, IgM has high avidity, and it is especially effective at complement activation. Due to its large size, IgM does not diffuse well, and it is found in the interstitium in very low amounts. IgM is mainly found in serum; however, because of the J chain, it is also important as a secretory immunoglobulin. IgM is the first immunoglobulin expressed by mature B cells, and it normally appears early in the course of an infection and does not reappear after further exposure.

Note: This product is for in vitro research use only