

Rabbit anti-Human IgM Monoclonal Antibody | anti-IgM antibody

Anti-IgM [M15/8]

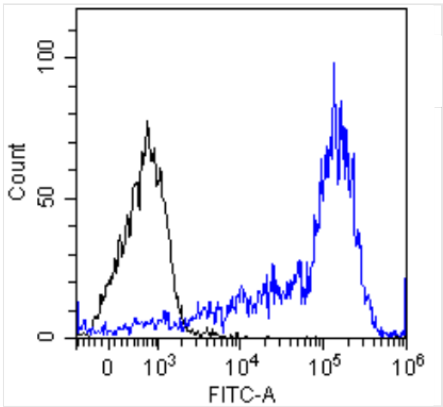
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA72065	Rabbit	Human	Immunoprecipitation, Immunohistochemistry, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

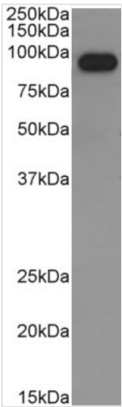
IgM; Monoclonal Antibody; Anti-IgM [M15/8]; mu-chain; anti-IgM antibody

PRODUCT SPECIFICATIONS

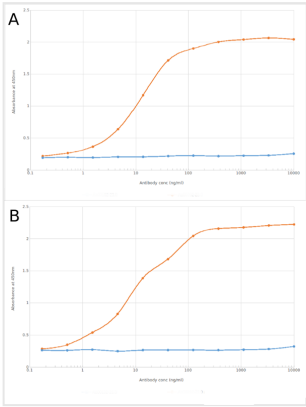
Host	Rabbit
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG, kappa
Clone Number	M15/8
Specificity	This antibody binds to human IgM.
Purity/Purification	Purified antibody. Protein A affinity purified
Form/Format	PBS with 0.02% Proclin 300.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-IgM antibody	Blocking, IP (Immunoprecipitation), IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry), ELISA
Chimeric Use Statement	This chimeric rabbit antibody was made using the variable domain sequences of the original Mouse IgG1 format, for improved compatibility with existing reagents, assays and techniques.
PMID	10070880
Preparation and Storage	Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.



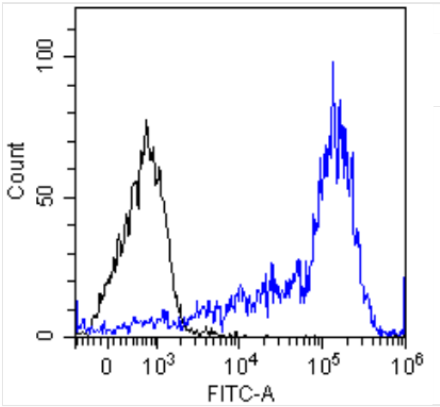
FCM/FACS (Flow Cytometry)
Flow-cytometry using the anti-IgM M15/8 (AAA72065) Daudi cells were stained with unimmunized rabbit IgG antibody (black line) or the rabbit-chimeric version of M15/8 (, blue line) at a concentration of 10ug/ml for 30 mins at RT. After washing, bound antibody was detected using anti-rabbit IgG JK (FITC-conjugate) antibody (129936) at 2ug/ml and cells analyzed on a FACSCanto flow-cytometer.



WB (Western Blot)
Western Blot using anti-IgM antibody M15/8 (AAA72065) Human spleen lysate (35ug protein in RIPA buffer) was resolved on a 10% SDS PAGE gel and blots probed with the chimeric rabbit version of M15/8 () at 0.3ug/ml before detection using an anti-rabbit secondary antibody. A primary incubation of 1h was used and protein was detected by chemiluminescence. The expected band size for IgM is 180/900kDa for monomeric/pentameric IgM respectively. Here it is likely that the observed fragment is single glycosylated IgM heavy chain as AAA72065 is targeted to the Fc region of IgM (Cragg et al., PMID: 10070880). successfully detected IgM in human spleen lysate.



ELISA
ELISA of anti-IgM antibody on IgM Fc region peptide and a murine IgM antibody. Binding curves of the rabbit chimeric version of the anti-IgM antibody M15/8 (, red line) and isotype control (anti-Fluorescein antibody; blue line) to an ELISA plate coated with either IgM Fc region peptide (Pr00108-15.5) at a concentration of 5ug/ml (A) or murine IgM antibody (B; Anti-CD41 antibody) again at 5ug/ml. A 3-fold serial dilution from 10,000 to 0.17 ng/ml was performed using . For signal detection, a 1:4000 dilution of HRP-labelled anti-rabbit IgG1 antibody was used. Both IgM Fc region peptide (monomeric ligand) and murine IgM antibody (multimeric ligand) were recognised by .



FCM/FACS (Flow Cytometry)
Flow-cytometry using the anti-IgM M15/8 (AAA72065) Daudi cells were stained with unimmunized rabbit IgG antibody (black line) or the rabbit-chimeric version of M15/8 (, blue line) at a concentration of 10ug/ml for 30 mins at RT. After washing, bound antibody was detected using anti-rabbit IgG JK (FITC-conjugate) antibody (129936) at 2ug/ml and cells analyzed on a FACSCanto flow-cytometer.

ADDITIONAL INFORMATION

Related Product Information for anti-IgM antibody	Recombinant monoclonal antibody to IgM. Recombinant Platform with variable regions (i.e. specificity) from the hybridoma M15/8. BALB/c mice immunized with human IgM.
Product Categories/Family for anti-IgM antibody	immunology; secondary
References	Cragg et al. Analysis of the interaction of monoclonal antibodies with surface IgM on neoplastic B-cells. Br J Cancer. 1999 Feb;79(5-6):850-7 Note on publication: Describes the characterization of the anti-proliferative effect of this antibody on B-cell lymphoma cell lines when applied in a cross-linking F(ab')3 format.

NCBI AND UNIPROT INFORMATION

NCBI GI #	193806374
NCBI GeneID	3507
UniProt Accession #	P01871; P20769
Molecular Weight	75,000
NCBI Official Full Name	Ig mu chain C region
NCBI Official Synonym Full Names	immunoglobulin heavy constant mu
NCBI Official Symbol	IGHM
NCBI Official Synonym Symbols	MU; VH; AGM1
UniProt Protein Name	Ig mu chain C region
UniProt Gene Name	IGHM
UniProt Entry Name	IGHM_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/igm-antibody-clone-m15-8-immunoprecipitation-immunohistochemistry-flow-cytometry-elisa/72065>