

Rabbit anti-Human MBL2 Polyclonal Antibody | anti-MBL2 antibody

Anti-MBL2 Antibody Picoband

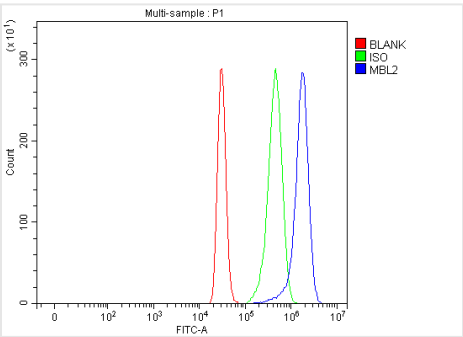
CATALOG # AAA127027	HOST Rabbit	REACTIVITY Human	APPLICATIONS ELISA, Flow Cytometry, Functional Assay, Western Blot
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PRODUCT SYNONYMS

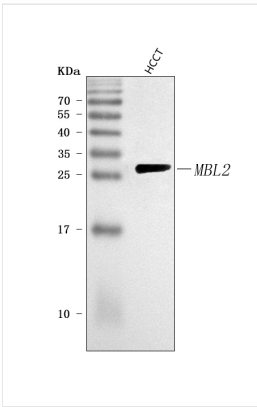
MBL2; Polyclonal Antibody; Anti-MBL2 Antibody Picoband; D(4) dopamine receptor; mannose-binding lectin (protein C) 2; Mannose-binding protein C; MBP-C; Mannan-binding protein; RA-reactive factor P28A subunit; RARF/P28A; Mbl2; anti-MBL2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Found only in peripheral nervous system Schwann cells.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-MBL2 antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human MBL2 recombinant protein (Position: E21-I248).
Subcellular Localization	Secreted
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins.
Protein Function	Calcium-dependent lectin involved in innate immune defense. Binds mannose, fucose and N-acetylglucosamine on different microorganisms and activates the lectin complement pathway. Binds to late apoptotic cells, as well as to apoptotic blebs and to necrotic cells, but not to early apoptotic cells, facilitating their uptake by macrophages (By similarity).
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)
Figure 2. Flow Cytometry analysis of HepG2 cells using anti-MBL2 antibody (AAA127027).Overlay histogram showing HepG2 cells stained with AAA127027 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-MBL2 Antibody (AAA127027, 1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)
Figure 1. Western blot analysis of MBL2 using anti-MBL2 antibody (AAA127027).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human hepatocellular carcinoma tumor tissue (HCCT) lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-MBL2 antigen affinity purified polyclonal antibody (#AAA127027) at 0.25ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for MBL2 at approximately 26 kDa. The expected band size for MBL2 is at 26 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-MBL2 antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-MBL2 antibody	Primary Antibodies; Complement; Immunology; Innate Immunity
References	1. Bodamer, O. A., Mitterer, G., Maurer, W., Pollak, A., Mueller, M. W., Schmidt, W. M. Evidence for an association between mannose-binding lectin 2 (MBL2) gene polymorphisms and pre-term birth. Genet. Med. 8: 518-524, 2006.2. Buranawuti, K., Boyle, M. P., Cheng, S., Steiner, L. L., McDougal, K., Fallin, M. D., Merlo, C., Zeitlin, P. L., Rosenstein, B. J., Mogayzel, P. J., Jr., Wang, X., Cutting, G. R. Variants in mannose-binding lectin and tumour necrosis factor alpha affect survival in cystic fibrosis. J. Med. Genet. 44: 209-214, 2007. 3. Davies, J., Neth, O., Alton, E., Klein, N., Turner, M. Differential binding of mannose-binding lectin to respiratory pathogens in cystic fibrosis. Lancet 355: 1885-1886, 2000.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4557739
NCBI GeneID	4153
NCBI Accession #	NP_000233.1
NCBI GenBank Nucleotide #	NM_000242.2
UniProt Accession #	P11226; Q4VB12; Q4VB13; Q86SI4; Q96KE4; Q96TF7; Q96TF8; Q96TF9
Molecular Weight	26,144 Da
NCBI Official Full Name	mannose-binding protein C
NCBI Official Synonym Full Names	mannose-binding lectin (protein C) 2, soluble

NCBI Official Symbol	MBL2
NCBI Official Synonym Symbols	MBL; MBP; MBP1; MBPD; MBL2D; MBP-C; COLEC1; HSMBPC
NCBI Protein Information	mannose-binding protein C; collectin-1; mannan-binding lectin; mannose-binding lectin 2, soluble (opsonic defect); mannose-binding lectin (protein C) 2, soluble (opsonic defect)
UniProt Protein Name	Mannose-binding protein C
UniProt Gene Name	MBL2
UniProt Synonym Gene Names	COLEC1; MBL; MBP-C
UniProt Entry Name	MBL2_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/polyclonal/mb12-antibody-flow-cytometry-western-blot-elisa/127027>