

Rabbit anti-Human GWL/MASTL Polyclonal Antibody | anti-GWL/MASTL antibody

Anti-GWL/MASTL Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127238	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

GWL/MASTL; Polyclonal Antibody; Anti-GWL/MASTL Antibody Picoband; chemokine (C motif) ligand 1; Lymphotactin; C motif chemokine 1; Cytokine SCM-1; Lymphotaxin; Small-inducible cytokine C1; Xcl1; Lptn; Ltn; Scyc1; anti-GWL/MASTL antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Expressed in activated CD8 (+) T cells. In the thymus, expressed by medullary thymic epithelial 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-GWL/MASTL antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E coli-derived human GWL/MASTL recombinant protein (Position: K179-L872).
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	Chemotactic activity for lymphocytes but not for monocytes or neutrophils. In thymus, mediates medullary accumulation of thymic dendritic cells and contributes to regulatoy T cell development, playing a role in self-tolerance establishment.
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.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of MCF-7 cells using anti-GWL/MASTL antibody (AAA127238).Overlay histogram showing MCF-7 cells stained with AAA127238 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-GWL/MASTL Antibody (AAA127238, 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 without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



IF (Immunofluorescence)

Figure 2. IF analysis of GWL/MASTL using anti-GWL/MASTL antibody (AAA127238) and anti-Tubulin Alpha antibody (M03989-3).GWL/MASTL was detected in immunocytochemical section of U2OS cell. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-GWL/MASTL Antibody (AAA127238) and mouse anti-Tubulin Alpha antibody (M03989-3) overnight at 4 degree C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) and DyLight488 Conjugated Goat Anti-Mouse IgG (BA1126) were used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



WB (Western Blot)

Figure 1. Western blot analysis of GWL/MASTL using anti-GWL/MASTL antibody (AAA127238). 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 HepG2 whole cell lysates, Lane 2: human 293T whole cell lysates, Lane 3: human Hela whole cell 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-GWL/MASTL antigen affinity purified polyclonal antibody (#AAA127238) at 0.5ug/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 GWL/MASTL at approximately 110 kDa. The expected band size for GWL/MASTL is at 97 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-GWL/MASTL 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-GWL/MASTL antibody	Primary Antibodies; Chemokines; Immunology; Innate Immunity
References	1. Di Paola, J., Johnson, J. Thrombocytopenias due to gray platelet syndrome or THC2 mutations. Semin. Thromb. Hemost. 37: 690-697, 2011. 2. Drachman, J. G., Jarvik, G. P., Mehaffey, M. G. Autosomal dominant thrombocytopenia: incomplete megakaryocyte differentiation and linkage to human chromosome 10. Blood 96: 118-125, 2000.3. Gandhi, M. J., Cummings, C. L., Drachman, J. G. FLJ14813 missense mutation: a candidate for autosomal dominant thrombocytopenia on human chromosome 10. Hum. Hered. 55: 66-70, 2003.

NCBI AND UNIPROT INFORMATION

NCBI GI #	288806587
NCBI GeneID	84930
NCBI Accession #	NP_001165774.1
NCBI GenBank Nucleotide #	NM_001172303.1
UniProt Accession #	Q96GX5; Q5T8D5; Q5T8D7; Q8NCD6; Q96SJ5
Molecular Weight	97,319 Da
NCBI Official Full Name	serine/threonine-protein kinase greatwall isoform 1
NCBI Official Synonym Full Names	microtubule associated serine/threonine kinase-like
NCBI Official Symbol	MASTL
NCBI Official Synonym Symbols	GW; GWL; THC2; hGWL; MAST-L; GREATWALL; RP11-85G18.2
NCBI Protein Information	serine/threonine-protein kinase greatwall; greatwall protein kinase; microtubule-associated serine/threonine-protein kinase-like
UniProt Protein Name	Serine/threonine-protein kinase greatwall
UniProt Gene Name	MASTL
UniProt Synonym Gene Names	GW; GWL; THC2; GW; GWL; hGWL; MAST-L
UniProt Entry Name	GWL_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/gwl-mastl-antibody-flow-cytometry-immunofluorescence-immunocytochemistry-western-blot-elisa/127238>