

Rabbit anti-Human, Mouse CHI3L1 / YKL-40 Polyclonal Antibody | anti-CHI3L1 antibody

Anti-CHI3L1 / YKL-40 Antibody IHC-plus

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA52656	Rabbit	Human, Mouse	Western Blot, Immunohistochemistry, Immunohistochemistry

PRODUCT SYNONYMS

CHI3L1 / YKL-40; Polyclonal Antibody; Anti-CHI3L1 / YKL-40 Antibody IHC-plus; CHI3L1 | 39 kDa synovial protein | ASRT7 | Cartilage glycoprotein 39 | CGP-39 | Chitinase-3-like protein 1 | gp39 | HCGP-39 | HCGP-3P | GP-39 | HC-gp39 | YKL40 | YYL-40 | YKL-40; anti-CHI3L1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	Human CHI3L1 / YKL-40
Purity/Purification	Affinity purified
Form/Format	PBS, pH 7.3, 0.02% Sodium Azide, 50% Glycerol
Concentration	3.07 mg/ml (varies by lot)
Sequence Length	383
Applicable Applications for anti-CHI3L1 antibody	WB (Western Blot), IHC (Immunohistochemistry), IHC (Immunohistochemistry)
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 22-240 of human CHI3L1 (NP_001267.2). YKLVCIYTSWSQYREGDGSCFPDALDRFLCTHIIYSFANISNDHIDTWEWNDVTLYGMLNTLKNRNPNLKTLLSVGGWNFGSQRFASKIASNTQSRR IKSVPPFLRTHGFDGLDLAWLYPGRRDKQHFTTLIKEMKAEFIKEAQP GKKQLLSAALSAGKVITIDSSYDIAKISQHLDFISIMTYDFHGAWRGTTGH SPLFRGQEDASPD RFSNTDYA
Disclaimer	Due to the highly specific nature of antibodies and antigens, we cannot predict or be held responsible with respect to how this antibody will behave in your systems. Researchers using this antibody should conduct optimization studies to achieve the most optimal result possible for their intended application.

Recommended Immunohistochemistry Protocol	<p>The following protocol is a recommendation only, and AAA Biotech makes no guarantee of the results:</p> <p>Tissue Preparation: Formalin fixation and embedding in paraffin wax.</p> <p>Tissue Sectioning: Make 4-um sections and place on pre-cleaned and charged microscope slides. Heat in a tissue-dryingoven for 45 minutes at 60°C.</p> <p>Deparaffinization: Wash dry slides in 3 changes of xylene - 5 minutes each @ RT</p> <p>Rehydration: Wash slides in 3 changes of 100% alcohol - 3 minutes each @ RT Wash slides in 2 changes of 95% alcohol - 3 minutes each @ RT Wash slides in 1 change of 80% alcohol - 3 minutes @ RT Rinse slides in gentle running distilled water - 5 minutes @ RT</p> <p>Antigen retrieval: Steam slides in 0.01 M sodium citrate buffer, pH 6.0 at 99-100°C - 20 minutes Remove from heat and let stand at room temperature in buffer - 20 minutes Rinse in 1X TBS with Tween (TBST) -1 minute @ RT</p> <p>Immunostaining: (Do not allow tissues to dry at any time during the staining procedure) Apply a universal protein block - 20 minutes @ RT Drain protein block from slides, apply diluted primary antibody - 45 minutes @ RT Rinse slides in 1 X TBST - 1 minute @ RT Apply a biotinylated secondary antibody appropriate for the primary antibody - 30 minutes @ RT Rinse slides in 1X TBST -1 minute @ RT Apply alkaline phosphatase streptavidin - 30 minutes @ RT Rinse slides in 1X TBST -1 minute @ RT Apply alkaline phosphatase chromogen substrate - 30 minutes @ RT Wash slides in distilled water - 1 minute @ RT</p> <p>Dehydrate: (This method should only be used if the chromogen substrate is alcohol insoluble (e.g. Vector Red, DAB) Wash slides in 2 changes of 80% alcohol - 1 minute each @ RT Wash slides in 2 changes of 95% alcohol - 1 minute each @ RT Wash slides in 3 changes of 100% alcohol - 1 minute each @ RT Wash slides in 3 changes of xylene - 1 minute each @ RT Apply coverslip</p>
Preparation and Storage	<p>Store at -20°C. Avoid freeze-thaw cycles.</p>

IMAGES



WB (Western Blot)
Western blot analysis of extracts of THP1 cells, using CHI3L1 antibody.



IHC (Immunohistochemistry)
Human Liver: Formalin-Fixed, Paraffin-Embedded (FFPE)

ADDITIONAL INFORMATION

Related Product Information for anti-CHI3L1 antibody	CHI3L1 Antibody, 39 kDa synovial protein Antibody, ASRT7 Antibody, Cartilage glycoprotein 39 Antibody, CGP-39 Antibody, Chitinase-3-like protein 1 Antibody, gp39 Antibody, HCGP-39 Antibody, HCGP-3P Antibody, GP-39 Antibody, HC-gp39 Antibody, YKL40 Antibody, YYL-40 Antibody, YKL-40 Antibody Description: Carbohydrate-binding lectin with a preference for chitin. Has no chitinase activity. May play a role in tissue remodeling and in the capacity of cells to respond to and cope with changes in their environment. Plays a role in T-helper cell type 2 (Th2) inflammatory response and IL-13-induced inflammation, regulating allergen sensitization, inflammatory cell apoptosis, dendritic cell accumulation and M2 macrophage differentiation.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	144226251
NCBI GeneID	1116
NCBI Accession #	NP_001267.2
NCBI GenBank Nucleotide #	NM_001276.2
UniProt Accession #	P36222; P30923; Q8IVA4; Q96HI7; B2R7B0
Molecular Weight	Predicted MW: 42kDa Observed MW by Western blot was 43kDa.
NCBI Official Full Name	chitinase-3-like protein 1
NCBI Official Synonym Full Names	chitinase 3 like 1
NCBI Official Symbol	CHI3L1
NCBI Official Synonym Symbols	GP39; ASRT7; GP-39; YKL40; CGP-39; YKL-40; YYL-40; HC-gp39; HCGP-3P; hCGP-39
NCBI Protein Information	chitinase-3-like protein 1
UniProt Protein Name	Chitinase-3-like protein 1
UniProt Gene Name	CHI3L1
UniProt Synonym Gene Names	CGP-39; GP-39; hCGP-39
UniProt Entry Name	CH3L1_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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