10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CHI3L2 Rabbit pAb

Catalog # AP96243

Product Information

Application	WB, E
Primary Accession	Q15782
Other Accession	Q15782
Predicted	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	43501
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human YKL39/CHI3L2
Epitope Specificity	121-220/390
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Secreted.
SIMILARITY	Belongs to the glycosyl hydrolase 18 family.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	YKL-39 is a 390 amino acid cartilage protein that belongs to the chitinase family of chitin-fragmenting hydrolases. Highly expressed in chondrocytes (cartilage cells) and synoviocytes (fibroblastic cells that line joint cavities), YKL-39 binds glycan structures with high affinity. Although related to bacterial chitinases, YKL-39 lacks the characteristic glutamate active site and, thus, does not have enzymatic chitinase activity. Patients affected with rheumatoid arthritis (RA) have autoimmunity against YKL-39, suggesting that YKL-39 is involved in osteoarthritic and/or rheumatoid joint disease. Additionally, YKL-39 is upregulated in early degenerative cartilage diseases (such as RA) and may be a marker of chondrocyte activation in these autoimmune conditions.

Additional Information

Gene ID	1117
Other Names	CHIL2; YKL-39; YKL39; CH3L2_HUMAN; CHI3L2; Chondrocyte protein 39; chitinase 3 like 2; chitinase 3-like 2
Target/Specificity	Highest expression in chondrocytes, followed by synoviocytes, lung and heart. Not detected in spleen, pancreas, and liver. May also be expressed in developing brain and placenta.
Dilution	WB=1:500-2000,ICC/IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When

reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	CHI3L2
Function	Lectin that binds chitooligosaccharides and other glycans with high affinity, but not heparin. Has no chitinase activity.
Cellular Location	Secreted.
Tissue Location	Highest expression in chondrocytes, followed by synoviocytes, lung and heart. Not detected in spleen, pancreas, and liver. May also be expressed in developing brain and placenta

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.