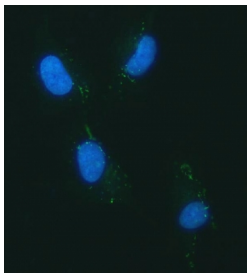
YKL-40 Antibody / CHI3L1 (RQ7302)

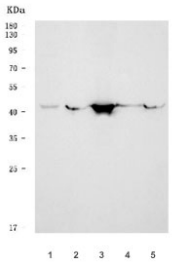
Catalog No.	Formulation	Size
RQ7302	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P36222
Localization	Cytoplasm, secreted
Applications	Western Blot : 0.5-1ug/ml Immunofluorescence : 5ug/ml Direct ELISA : 0.1-0.5ug/ml
Limitations	This YKL-40 antibody is available for research use only.



Immunofluorescent staining of FFPE human U-87 MG cells with YKL-40 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



Western blot testing of 1) human U-87 MG, 2) rat liver, 3) rat RH35, 4) mouse lung and 5) mouse liver tissue lysate with YKL-40 antibody. Predicted molecular weight ~43 kDa.

Description

Chitinase-3-like protein 1 (CHI3L1), also known as YKL-40, is a secreted glycoprotein that is approximately 40kDa in size that in humans is encoded by the CHI3L1 gene. Chitinases catalyze the hydrolysis of chitin, which is an abundant glycopolymer found in insect exoskeletons and fungal cell walls. The glycoside hydrolase 18 family of chitinases includes eight human family members. This gene encodes a glycoprotein member of the glycosyl hydrolase 18 family. The protein lacks chitinase activity and is secreted by activated macrophages, chondrocytes, neutrophils and synovial cells. The protein is thought to play a role in the process of inflammation and tissue remodeling.

Application Notes

Optimal dilution of the YKL-40 antibody should be determined by the researcher.

Immunogen

Recombinant human protein (amino acids S103-T383) was used as the immunogen for the YKL-40 antibody.

Storage

After reconstitution, the YKL-40 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.