





CHI3L1 Polyclonal Antibody

Catalog Number PA5-37357 Product data sheet

Details	
	400 ml
Size	100 μL
Host/Isotope	Rabbit / IgG
Class	Polyclonal
Туре	Antibody
Immunogen	Recombinant full length human CHI3L1
Conjugate	Unconjugated
Form	Liquid
Concentration	1 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS with 50% glycerol
Contains	0.02% sodium azide
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

Species Reactivity	
Species reactivity	Human, Mouse, Rat
Tested Applications	Dilution *
Immunohistochemistry (IHC)	1:50-1:200
Western Blot (WB)	1:500-1:2,000
Immunocytochemistry (ICC/IF)	1:50-1:200

^{*} Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.

Product specific information

This antibody detects endogenous protein at a molecular weight of 43 kDa. Purity is >95% by SDS-PAGE.

Background/Target Information

Human cartilage glycoprotein 39 (GP-39), also known as YKL-40, is a glycoprotein secreted by articular chondrocytes, synoviocytes and macrophages. Serum and synovial fluid GP-39 levels are elevated in inflammatory diseases and correlate with the degree of joint destruction in rheumatoid arthritis. GP-39 is expressed in articular chondrocytes and synovial cells, as well as in liver, but is undetectable in muscle tissues, lung, pancreas, mononuclear cells and fibroblasts. GP-39 is a candidate autoantigen in rheumatoid arthritis and is important in the capacity of cells to respond to and cope with changes in their environment.

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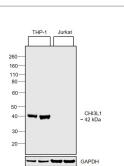


Product Images For CHI3L1 Polyclonal Antibody

THP-1 Jurkat 110 80 60 60 40 40 CHI3L1 - 42 kDa 30 20 GAPDH

CHI3L1 Antibody (PA5-37357)

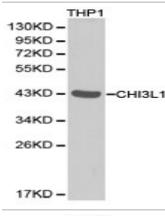
Antibody specificity was demonstrated by detection of differential basal expression of the target across cell lines owing to their inherent genetic constitution. Relative expression of Chitinase-3-like protein 1 was observed in THP-1 in comparison to Jurkat using Anti-CHI3L1 Polyclonal Antibody (Product # PA5-37357) in Western Blot. {RE}



PTI, 1X for 4 hr

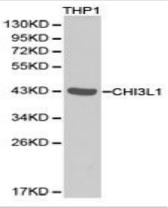
CHI3L1 Antibody (PA5-37357) in WB

Western blot was performed using Anti-CHI3L1 Polyclonal Antibody (Product # PA5-37357) and a 42kDa band corresponding to Chitinase-3-like protein 1 was observed across in THP-1 compared to Jurkat which is reported to be negative. Whole cell extracts (30 μg lysate) of THP-1 (Lane 1), THP-1 treated with protein transport inhibitor (1X for 4 hr) (Lane 3) and Jurkat treated with protein transport inhibitor (1X for 4 hr) (Lane 4) were electrophoresed using NuPAGETM 4-12% Bis-Tris Protein Gel (Product # NP0322BOX). Resolved proteins were then transferred onto a Nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (1:2000 dilution) and detected by chemiluminescence with Goat anti-Rabbit IgG (Heavy Chain) SuperclonalTM Recombinant Secondary Antibody, HRP (Product # A27036, 1:4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Reagent Kit (Product # WP20005).



CHI3L1 Antibody (PA5-37357) in WB

Western blot analysis of CHI3L1 in extracts of THP1 cell lines. Samples were incubated with CHI3L1 polyclonal antibody (Product # PA5-37357).



CHI3L1 Antibody (PA5-37357) in WB

Western blot analysis of CHI3L1 in extracts of THP-1 cells using CHI3L1 polyclonal antibody (Product # PA5-37357).

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