Leader in Biomolecular Solutions for Life Science

YKL-40/CHI3L1 Rabbit mAb

Catalog No.: A28527

Recombinant

www.abclonal.com

Basic Information

Observed MW
40 kDa

Calculated MW
43 kDa/44 kDa

Category
Monoclonal Antibodies

Applications
WB, IP, IHC-P, FC (intra), ELISA

Cross Reactivity
Mouse

Clone No.
ARC79279

Background

Predicted to enable chitin binding activity. Involved in positive regulation of macromolecule metabolic process and positive regulation of phosphatidylinositol 3-kinase/protein kinase B signal transduction. Located in endoplasmic reticulum. Is expressed in several structures, including alimentary system; genitourinary system; limb; liver; and skeleton. Human ortholog(s) of this gene implicated in asthma and schizophrenia. Orthologous to human CHI3L1 (chitinase 3 like 1).

Recommended Dilutions

WB	1:3000 - 1:10000
IP	0.5 μg-4 μg antibody for 400 μg-600 μg extracts of whole cells
IHC-P	1:100 - 1:400
FC (intra)	1:1000 - 1:5000
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements. For high-ratio antibody dilutions (≥1:10000),a sequential dilution method is strongly recommended to ensure measurement accuracy.

Immunogen Information

Gene ID
12654

Swiss-Prot
Q61362

Immunogen
Recombinant protein (or fragment). This information is considered to be commercially sensitive.

Synonyms
Gp39; Brp39; Chil1

Contact

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Product Information

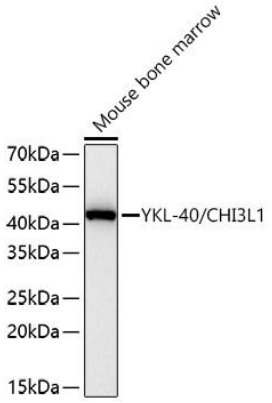
Source
Rabbit

Isotype
IgG

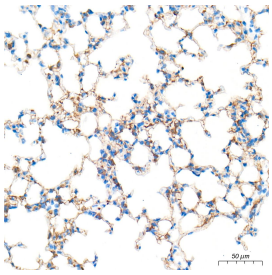
Purity
Affinity purification

Storage
Store at -20℃

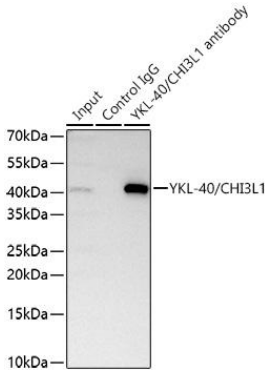
Validation Data



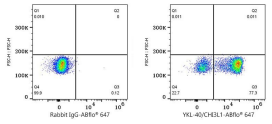
Western blot analysis of lysates from Mouse bone marrow using YKL-40/CHI3L1 Rabbit mAb (A28527) at 1:5000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1: 10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 45 s.



Immunohistochemistry analysis of paraffin-embedded Mouse lung tissue using YKL-40/CHI3L1 Rabbit mAb (A28527) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunoprecipitation of YKL-40/CHI3L1 from 600 µg extracts of Mouse lung tissue was performed using 2 µg of YKL-40/CHI3L1 Rabbit mAb (A28527).Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1x Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using YKL-40/CHI3L1 Rabbit mAb (A28527) at a dilution of 1:5000.



Flow cytometry: 1X10^6 C57BL/6 mouse bone marrow cells were intracellularly-stained with Rabbit IgG isotype control (AC042,2 µg/mL,left) or YKL-40/CHI3L1 Rabbit mAb (A28527,2 µg/mL,right), followed by Alexa Fluor® 647 conjugated goat anti-rabbit pAb staining.