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

COTL1 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP8819b

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	Q14019
Other Accession	Q2HJ57, NP_066972
Reactivity	Human
Predicted	Bovine, Mouse, Rat, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB23505
Calculated MW	15945
Antigen Region	115-142

Additional Information

Gene ID	23406
Other Names	Coactosin-like protein, COTL1, CLP
Target/Specificity	This COTL1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 115-142 amino acids from the C-terminal region of human COTL1.
Dilution	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	COTL1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	COTL1
Synonyms	CLP

Function	Binds to F-actin in a calcium-independent manner. Has no direct effect on actin depolymerization. Acts as a chaperone for ALOX5 (5LO), influencing both its stability and activity in leukotrienes synthesis.
Cellular Location	Cytoplasm. Cytoplasm, cytoskeleton. Nucleus
Tissue Location	Widely expressed with highest levels in placenta, lung, kidney and peripheral blood leukocytes and lower levels in brain, liver and pancreas.

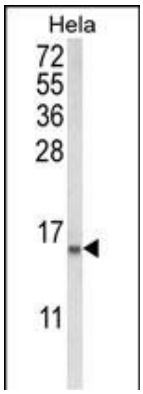
Background

COTL1 is one of the numerous actin-binding proteins which regulate the actin cytoskeleton. This protein binds F-actin, and also interacts with 5-lipoxygenase, which is the first committed enzyme in leukotriene biosynthesis.

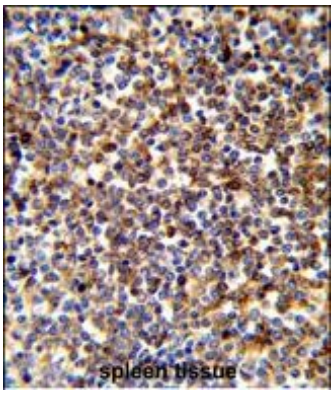
References

Provost,P., et.al., Proc. Natl. Acad. Sci. U.S.A. 96 (5), 1881-1885 (1999)
Provost,P., et.al., J. Biol. Chem. 276 (19), 16520-16527 (2001)

Images

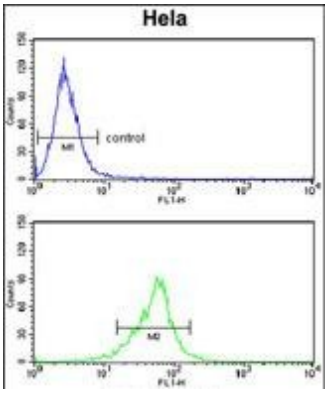


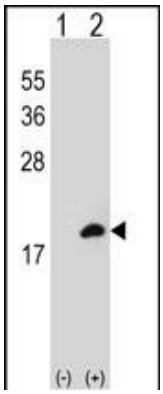
Western blot analysis of COTL1 Antibody (C-term) (Cat. #AP8819b) in Hela cell line lysates (35ug/lane). COTL1 (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human spleen tissue reacted with COTL1 Antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

COTL1 Antibody (C-term) (Cat. #AP8819b) flow cytometry analysis of Hela cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.





Western blot analysis of COTL1 (arrow) using rabbit polyclonal COTL1 Antibody (C-term) (Cat. #AP8819b). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the COTL1 gene.

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