

COTL1 Antibody

Purified Mouse Monoclonal Antibody

Catalog # AO1670a

Product Information

Application	WB, IHC, E
Primary Accession	Q14019
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	5C8
Isotype	IgG1
Calculated MW	15945
Description	This gene encodes 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. Although this gene has been reported to map to chromosome 17 in the Smith-Magenis syndrome region, the best alignments for this gene are to chromosome 16. The Smith-Magenis syndrome region is the site of two related pseudogenes.
Immunogen	Purified recombinant fragment of human COTL1 expressed in E. Coli.
Formulation	Purified antibody in PBS with 0.05% sodium azide

Additional Information

Gene ID	23406
Other Names	Coactosin-like protein, COTL1, CLP
Dilution	WB~~1/500 - 1/2000 IHC~~1/200 - 1/1000 E~~1/10000
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	COTL1 Antibody 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.

References

1. Biochem J. 2009 Dec 14;425(1):265-74. 2. Exp Mol Med. 2009 May 31;41(5):354-61.

Images

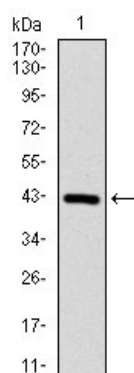


Figure 1: Western blot analysis using COTL1 mAb against human COTL1 (AA: 1-142) recombinant protein. (Expected MW is 16 kDa)

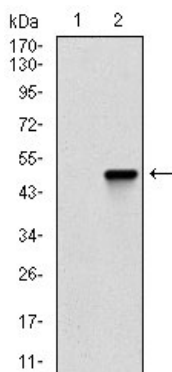


Figure 2: Western blot analysis using COTL1 mAb against HEK293 (1) and COTL1 (AA: 1-142)-hIgGfc transfected HEK293 (2) cell lysate.

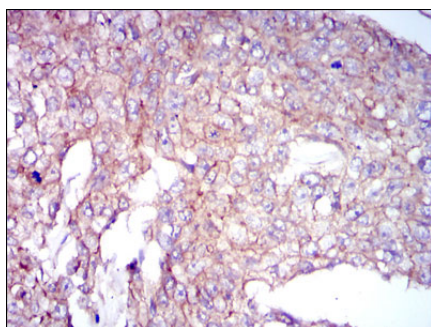
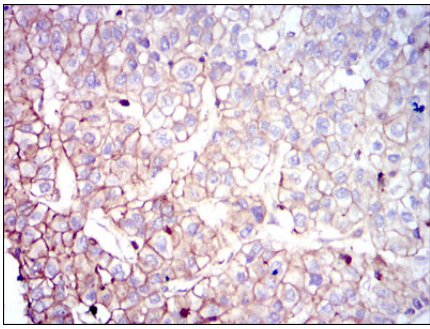


Figure 3: Immunohistochemical analysis of paraffin-embedded breast cancer tissues using COTL1 mouse mAb with DAB staining.

Figure 4: Immunohistochemical analysis of paraffin-embedded liver cancer tissues using COTL1 mouse mAb with DAB staining.



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