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## **Human Coactosin-like Protein 1/COTL1 antibody**

Catalog Number: ATGA0300

### **PRODUCT INFORMATION**

## Catalog number

ATGA0300

#### Clone No.

AT1D6

## **Product type**

Monoclonal Antibody

#### UnitProt No.

Q14019

#### **NCBI Accession No.**

NP 066972

#### **Alternative Names**

Coactosin like F-actin binding protein 1, Coactosin-like 1 (Dictyostelium), Coactosin-like F-actin binding protein 1, CLP

## **PRODUCT SPECIFICATION**

#### **Antibody Host**

Mouse

#### **Reacts With**

Human

#### **Concentration**

1mg/ml (determined by BCA assay)

#### **Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

## **Immunogen**

Recombinant human COTL1 (1-142aa) purified from E. coli

## Isotype

IgG2b kappa

#### **Purification Note**

By protein-A affinity chromatography

### **Application**

ELISA, WB, FACS

#### Usage

The antibody has been tested by ELISA, Western blot and FACS analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.



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#### **Storage**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## **BACKGROUND**

## **Description**

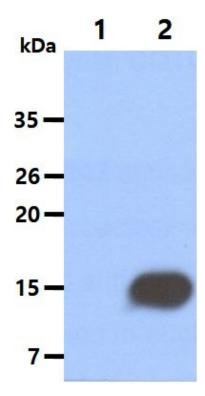
COTL1 (coactosin-like 1), also known as CLP, is a 142 amino acid cytoplasmic and cytoskeletal protein that belongs to the actin-binding proteins ADF family and coactosin subfamily. COTL1 is first identified in slime mold and is found at highest levels in kidney, placenta, lung and peripheral blood leukocytes. COTL1 is one of many proteins that participate in regulation of Actin's cytoskeleton through a calcium dependent mechanism, but has not been shown to have a direct effect on Actin depolymerization.

## **General References**

Provost. P., et al. (2001) Biochem J 359(1): 255-263. Dai. H., et al. (2006) Biochim Biophys Acta 1764(11): 1688-1700. Esser. J., et al. (2010) Biochem J 425(1): 265-274.

#### **DATA**

## Western blot analysis (WB)



The cell lysates(20ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human Coactosin-like Protein 1/COTL1 antibody (1:2000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

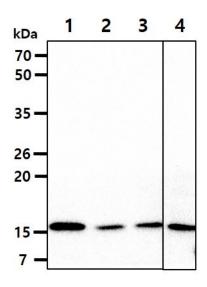
Lane 1.: 293T cell lysate

Lane 2.: Coactosin-like Protein 1/COTL1 Transfected 293T cell lysate



# **Human Coactosin-like Protein 1/COTL1 antibody**

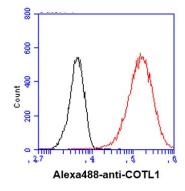
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The cell lysates(40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human Coactosin-like Protein 1/COTL1 antibody (1:500). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: PC3 cell lysate Lane 2.: A549 cell lysate Lane 3.: U87MG cell lysate Lane 4.: HeLa cell lysate

## Flow cytometry (FACS)



Flow cytometry analysis of Coactosin-like Protein 1/COTL1 in HeLa cell line, staining at 2-5ug for 1x10^6cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).

