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

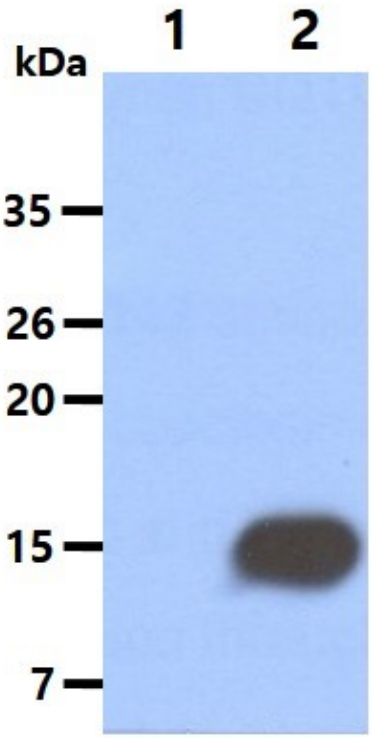
COTL1 (coactosin-like 1), also known as CLP, is a 142 amino acid cytoplasmic and cytoskeletal protein that belongs to the actin-binding proteins ADF family and coactosin subfamily. COTL1 is first identified in slime mold and is found at highest levels in kidney, placenta, lung and peripheral blood leukocytes. 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

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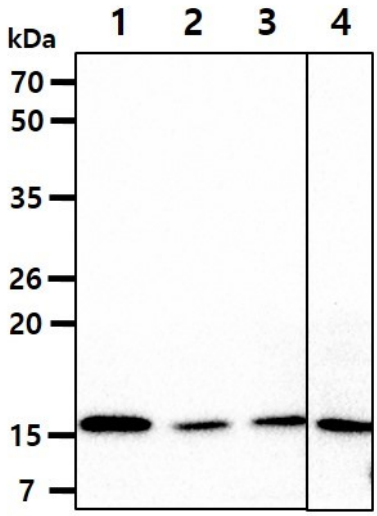
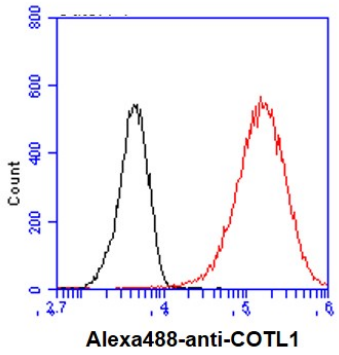


The cell lysates(40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human Coactosin-like Protein 1/COTL1 antibody (1:500). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.
Lane 1.: PC3 cell lysate
Lane 2.: 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).