

Human Otubain-1/OTUB1 antibody

Catalog Number: ATGA0380

PRODUCT INFORMATION

Catalog number

ATGA0380

Clone No.

AT17E10

Product type

Monoclonal Antibody

UnitProt No.

Q96FW1

NCBI Accession No.

NP_060140

Alternative Names

ubiquitin thioesterase Otubain 1, OTB1, OTu1, ubiquitin thioesterase Otubain 1 Deubiquitinating enzyme OTuB1, OTu domain containing ubiquitin aldehyde binding protein 1, Otubain 1, ubiquitin specific processing protease OTuB1, ubiquitin thioesterase OTuB1.

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 OTUB1 (1-271aa) purified from E. coli

Isotype

IgG1 kappa

Purification Note

By protein-A affinity chromatography

Application

ELISA, WB, ICC/IF

Usage

The antibody has been tested by ELISA, Western blot analysis, ICC/IF and Flow cytometry 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

Otubain 1, also known as OTUB1, is a member of the OTU (ovarian tumor) superfamily of predicted cysteine proteases and inhibits cytokine gene transcription in the immune system via its interaction with an ubiquitin protease and E3 ubiquitin ligase. This protein is a highly specific ubiquitin iso-peptidase, and cleaves ubiquitin from branched poly-ubiquitin chains but not from ubiquitinated substrates. It is proposed to function in specific ubiquitin-dependent pathways, possibly by providing an editing function of polyubiquitin chain growth.

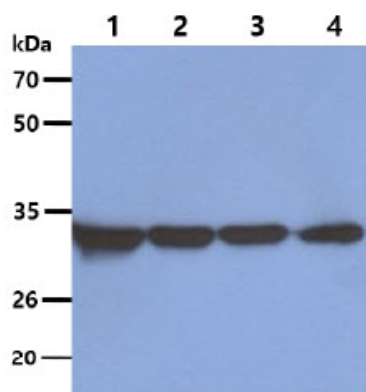
General References

Balakirev MY., et al. (2003) EMBO Rep. 4(5): 5175-5122.

Soares L., et al. (2004) Nat Immunol. 5(1): 45-54.

DATA

Western blot analysis (WB)



The Cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human OTUB1 antibody (1:5000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

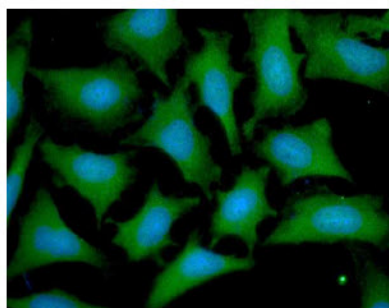
Lane 1. : A549 cell lysate

Lane 2. : HeLa cell lysate

Lane 3. : HepG2 cell lysate

Lane 4. : 293T cell lysate

Immunocytochemistry/Immunofluorescence (ICC/IF)



ICC/IF analysis of OTUB1 in HeLa cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human OTUB1 antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).