PRODUCT INFORMATION

Catalog number ATGA0199

Clone No. AT4D6

Product type Monoclonal Antibody

UnitProt No. Q13363

NCBI Accession No. NP_001319

Alternative Names

C-terminal-binding protein 1 isoform 1, BARS, C-terminal-binding protein 1 isoform 1 C terminal binding protein 1, CTBP, CTBP1, MGC104684.

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 CTBP1 (1-440aa) purified from E. coli

Isotype IgG2b kappa

Purification Note By protein-G affinity chromatography

Application

ELISA,WB,ICC/IF

Usage

The antibody has been tested by ELISA and Western blot analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results. Recommended dilution range for Western blot analysis is 1:500. Recommended starting dilution is 1:500



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

The C-terminal-binding protein (CtBP) was originally identified as a cellular protein that interacts with a Cterminal motif of adenovirus E1A oncoproteins. CtBP is highly conserved in higher eukaryotes. Vertebrates contain two highly homologous CtBP proteins (CtBP1 and CtBP2) while invertebrates contain a single CtBP. CtBP family proteins share significant sequence homology with D-2-hydroxy acid dehydrogenases. Also, CtBP proteins associate with various proteins and functions as a co-repressor of transcription.

General References

Katsanis N, et al. (1998). Genomics 47 (2): 294-9. Paliwal S, et al. (March 2006). Mol. Cell. Biol. 26 (6): 2360-72. Chinnadurai G (2002). Mol. Cell 9 (2): 213-24.

DATA

Western blot analysis (WB)



The cell and tissue lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human CTBP1 antibody (1:500). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1.: HeLa cell lysate Lane 2.: NIH3T3 cell lysate Lane 3.: 293T cell lysate Lane 4.: AGS cell lysate Lane 5.: Raji cell lysate Lane 6.: A549 cell lysate Lane 7.: Jurkat cell lysate

Immunocytochemistry/Immunofluorescence (ICC/IF)



ICC/IF analysis of CTBP1 in A549 cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human CTBP1 antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green)

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ICC/IF analysis of CTBP1 in HeLa cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human CTBP1 antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).

