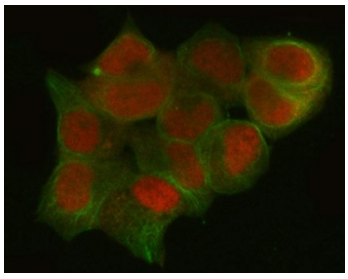
CTBP1 Antibody (R32212)

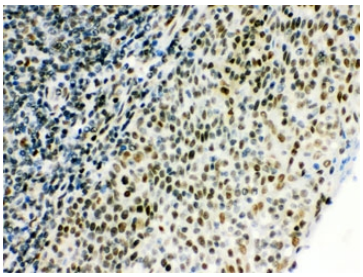
Catalog No.	Formulation	Size
R32212	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

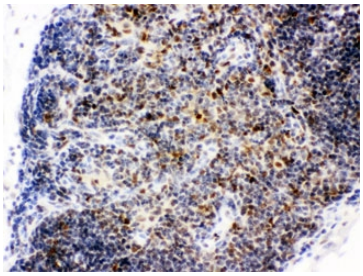
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
UniProt	Q13363
Localization	Nuclear, cytoplasmic
Applications	Western blot: 0.1-0.5ug/ml Immunohistochemistry (FFPE): 1-2ug/ml Immunofluorescence (FFPE): 2-5ug/ml Flow cytometry: 1-3ug/million cells
Limitations	This CTBP1 antibody is available for research use only.



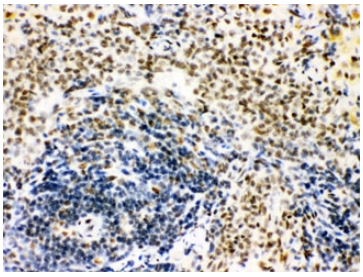
Immunofluorescent staining of FFPE human T-47D cells with CTBP1 antibody (red) and Alpha Tubulin mAb (green). HIER: steam section in pH6 citrate buffer for 20 min.



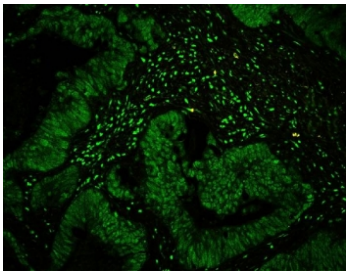
IHC testing of FFPE human tonsil tissue with CTBP1 antibody. HIER: Boil the paraffin sections in pH 6, 10mM citrate buffer for 20 minutes and allow to cool prior to staining.



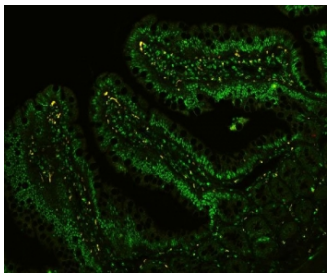
IHC testing of FFPE mouse thymus tissue with CTBP1 antibody. HIER: Boil the paraffin sections in pH 6, 10mM citrate buffer for 20 minutes and allow to cool prior to staining.



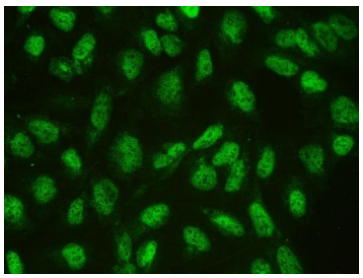
IHC testing of FFPE rat spleen tissue with CTBP1 antibody. HIER: Boil the paraffin sections in pH 6, 10mM citrate buffer for 20 minutes and allow to cool prior to staining.



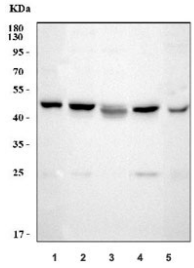
Immunofluorescent staining of FFPE human intestinal cancer tissue with CTBP1 antibody. HIER: steam section in pH6 citrate buffer for 20 min.



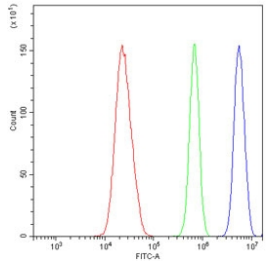
Immunofluorescent staining of FFPE rat intestinal tissue with CTBP1 antibody. HIER: steam section in pH6 citrate buffer for 20 min.



Immunofluorescent staining of FFPE human U-2 OS cells with CTBP1 antibody. HIER: steam section in pH6 citrate buffer for 20 min.



Western blot testing of 1) human SH-SY5Y, 2) human MOLT-4, 3) human MCF7, 4) rat PC-12 and 5) mouse SP2/0 cell lysate with CTBP1 antibody. Predicted molecular weight ~48 kDa.



Flow cytometry testing of human U-2 OS cells with CTBP1 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= CTBP1 antibody.

Description

CTBP1, C-terminal-binding protein 1, is a protein that in humans is encoded by the CTBP1 gene. The CtBP1 protein binds to the C-terminus of adenovirus E1A proteins. This gene is mapped to 4p16.This phosphoprotein is a transcriptional repressor (corepressor) and may play a role during cellular proliferation. This protein and the product of a second closely related gene, CTBP2, can dimerize. CtBP1 and CtBP2 preferentially associate with the E1A via a 5 amino acid motif, PLDLS, to repress E1A induced oncogenesis and cellular transformation. CtBP1 is expressed from embryo to adult, but CtBP2 is mainly expressed during embryogenesis. During skeletal and T cell development, CtBP1 and CtBP2 associate with the PLDLSL domain of ?EF1, a cellular zinc finger-homeodomain protein, and thereby enhances ?EF1-induced transcriptional silencing. In addition, CtBP complexes with CtIP, a 125 kDa protein that recognizes distinctly different protein motifs from CtBP. CtIP binds to the BRCT repeats within the breast cancer gene BRCA1 and enables CtBP to influence BRCA1 activity. Both proteins can also interact with a polycomb group protein complex which participates in regulation of gene expression during development. Alternative splicing of transcripts from this gene results in multiple transcript variants.

Application Notes

Optimal dilution of the CTBP1 antibody should be determined by the researcher.

Immunogen

Amino acids HGLPPVAHPPHAPSPGQTVKPEADRDHASDQL of human CTBP1 were used as the immunogen for the CTBP1 antibody.

Storage

After reconstitution, the CTBP1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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