

Basic Information

Product Name	Anti-CTBP2 Antibody	
Gene Name	CTBP2	
Source	Rabbit	
Clonality	Polyclonal	
Isotype	IgG	
Species Reactivity	human, mouse, rat	
Tested Application	WB, IHC, ICC/IF, FCM	
Contents	500 ug/ml antibody with PBS, 0.02% NaN ₃ , 1 mg/ml BSA and 50% glycerol.	
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human CTBP2, identical to the related rat and mouse sequences.	
Concentration	500 ug/ml	
Purification	Immunogen affinity purified.	
Observed MW	49 kDa	
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 Immunocytochemistry/Immunofluorescence (ICC/IF): 1:50-400 Flow Cytometry (Fixed): 1:50-200 (Boiling the paraffin sections in 10mM citrate buffer, pH6.0, or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.	

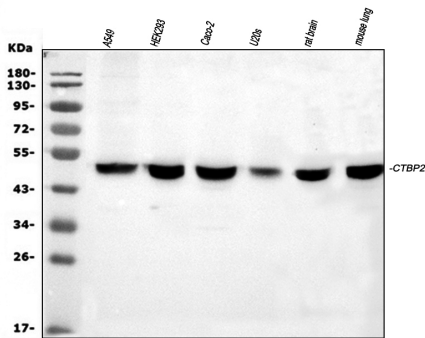
Storage

12 months from date of receipt, -20°C as supplied.

Background Information

The E1a region of group C adenoviruses encodes 2 nearly identical proteins that are largely responsible for the oncogenic properties of adenoviruses. The CTBP1 protein binds to the C-terminal half of these E1A proteins. It's predicted that CTBP2 is a 445-amino acid protein and it is 72% identical to CTBP1. The CTBP2 gene is mapped to chromosome 10q26.13. CTBP2 is a mammalian corepressor that targets diverse transcriptional regulators. It binds the short medial portion of delta-EF1 containing the PLDLSL motif and it enhances transrepression activity of delta-EF1.

Selected Validation Data



Western blot analysis of CTBP2 using anti-CTBP2 antibody (BA3643). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human A549 whole cell lysates,

Lane 2: human HEK293 whole cell lysates,

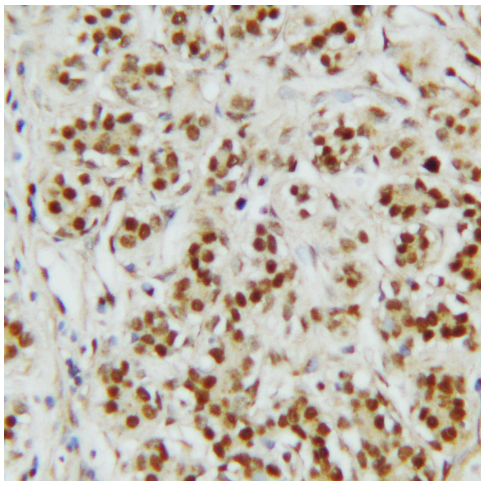
Lane 3: human Caco-2 whole cell lysates,

Lane 4: human U2OS whole cell lysates,

Lane 5: rat brain tissue lysates,

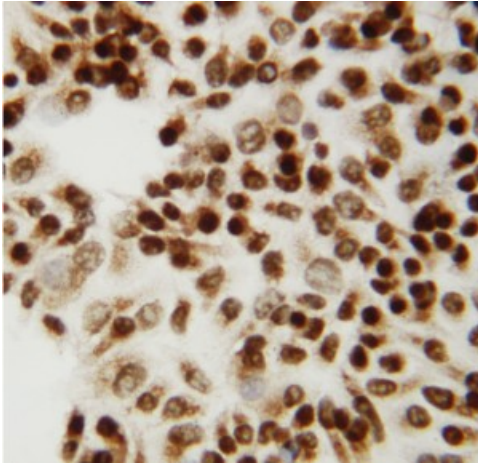
Lane 6: mouse lung tissue lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-CTBP2 antigen affinity purified polyclonal antibody (BA3643) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for CTBP2 at approximately 49 kDa. The expected band size for CTBP2 is at 49 kDa.



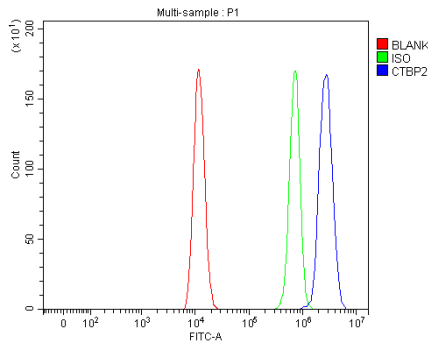
IHC analysis of CTBP2 using anti-CTBP2 antibody (BA3643).

CTBP2 was detected in a paraffin-embedded section of human mammary cancer tissue. The tissue section was incubated with rabbit anti-CTBP2 Antibody (BA3643) at a dilution of 1:200 and developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1027) as the chromogen.



ICC analysis of CTBP2 using anti-CTBP2 antibody (BA3643).

CTBP2 was detected in an immunocytochemical section of Hela cells. The section was incubated with rabbit anti-CTBP2 Antibody (BA3643) at a dilution of 1:100. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The section was developed using Streptavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.



Flow Cytometry analysis of HEL cells using anti-CTBP2 antibody (BA3643).

Overlay histogram showing HEL cells stained with BA3643 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-CTBP2 Antibody (BA3643) at 1:100 dilution for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG at 1:100 dilution used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.