Product datasheet

Anti-CTBP2 Antibody

Catalog Number: *PB9426*

BOSTER
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator,
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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, IF, ICC/IF, FCM
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	E.coli-derived human CTBP2 recombinant protein (Position: H321-Q445). Human CTBP2 shares 99.2% and 98.4% amino acid (aa) sequence identity with mouse and rat CTBP2, respectively.
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 Immunofluorescence (IF): 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℃ 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 bounds the short medial portion of delta-EF1 containing the PLDLSL motif and it enhances transrepression activity of delta-EF1.

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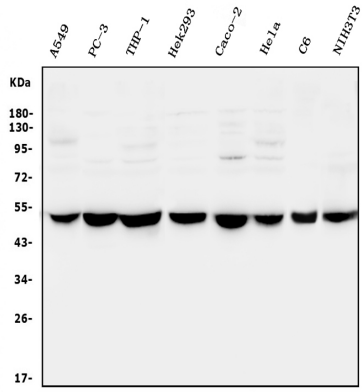
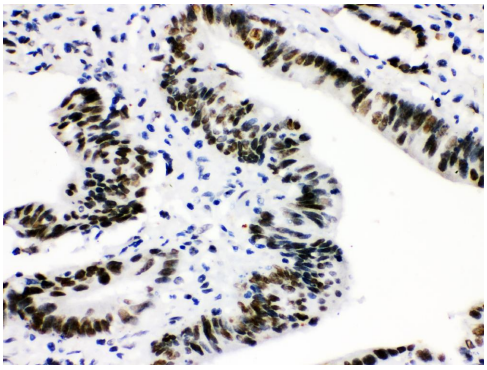
Reference

Anti-CTBP2 Antibody 被引用在1文献中。

Selected Validation Data



Western blot analysis of CTBP2 using anti-CTBP2 antibody (PB9426). 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 PC-3 whole cell lysates,
Lane 3: human THP-1 whole cell lysates,
Lane 4: human HEK293 whole cell lysates,
Lane 5: human CACO-2whole cell lysates,
Lane 6: human HELA whole cell lysates,
Lane 7: rat C6 whole cell lysates,
Lane 8: mouse NIH/3T3 whole cell lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-CTBP2 antigen affinity purified polyclonal antibody (PB9426) 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 (PB9426).
CTBP2 was detected in a paraffin-embedded section of human intestinal cancer tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-CTBP2 Antibody (PB9426) at a dilution of 1:200 and developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.

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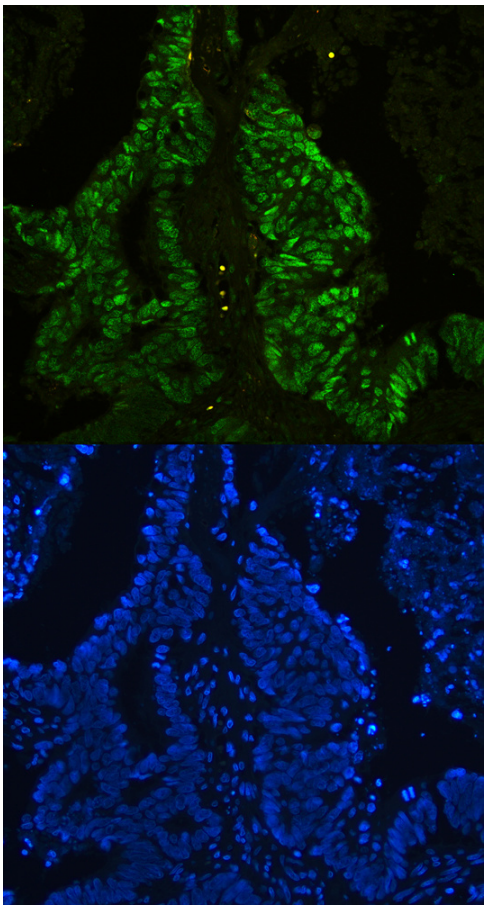
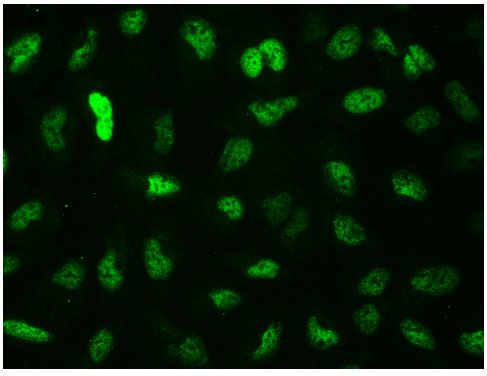


IF analysis of CTBP2 using anti- CTBP2 antibody (PB9426)
CTBP2 was detected in paraffin-embedded section of human colon cancer tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1µg/mL rabbit anti- CTBP2 Antibody (PB9426) overnight at 4°C. Biotin conjugated goat anti-rabbit IgG (BA1003) was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using DyLight488 Conjugated Avidin (BA1128). The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



IF analysis of CTBP2 using anti- CTBP2 antibody (PB9426).
CTBP2 was detected in immunocytochemical section of U2OS cell. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 2µg/mL rabbit anti- CTBP2 Antibody (PB9426) overnight at 4°C. DyLight488 Conjugated Goat Anti-Rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37°C. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

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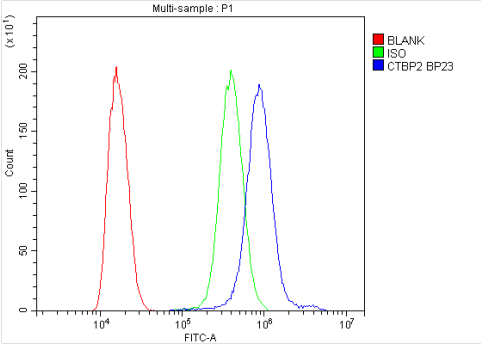

Flow Cytometry analysis of SiHa cells using anti-CTBP2 antibody (PB9426). Overlay histogram showing SiHa cells stained with PB9426 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-CTBP2 Antibody (PB9426) 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.