

**Anti-CTBP2 Antibody Picoband™ (monoclonal, 10E9D2)**  
**Catalog # ABO15097****Specification****Anti-CTBP2 Antibody Picoband™ (monoclonal, 10E9D2) - Product Information**

Application	WB, IHC, IF, ICC, FC
Primary Accession	<a href="#">P56545</a>
Host	Mouse
Isotype	Mouse IgG1
Reactivity	Human
Clonality	Monoclonal
Format	Lyophilized

**Description**

Anti-CTBP2 Antibody Picoband™ (monoclonal, 10E9D2) . Tested in FCM, IF, IHC, ICC, WB applications. This antibody reacts with Human.

**Reconstitution**

Adding 0.2 ml of distilled water will yield a concentration of 500 µg/ml.

**Anti-CTBP2 Antibody Picoband™ (monoclonal, 10E9D2) - Additional Information**

**Gene ID** 1488

**Other Names**

C-terminal-binding protein 2, CtBP2, CTBP2

**Calculated MW**

50 kDa KDa

**Application Details**

Western blot, 0.25-0.5 µg/ml, Human<br> Immunohistochemistry(Paraffin-embedded Section), 2-5 µg/ml, Human<br> Immunocytochemistry/Immunofluorescence, 5 µg/ml, Human<br> Flow Cytometry, 1-3 µg/1x<sup>6</sup> cells, Human<br>

**Contents**

Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na<sub>2</sub>HPO<sub>4</sub>.

**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.

**Purification**

Immunogen affinity purified.

**Storage**

**At -20°C for one year from date of receipt.  
After reconstitution, at 4°C for one month.  
It can also be aliquotted and stored frozen  
at -20°C for six months. Avoid repeated  
freezing and thawing.**

## Anti-CTBP2 Antibody Picoband™ (monoclonal, 10E9D2) - Protein Information

**Name** CTBP2

### Function

Corepressor targeting diverse transcription regulators. Functions in brown adipose tissue (BAT) differentiation (By similarity).

### Cellular Location

Nucleus. Synapse.

### Tissue Location

Ubiquitous. Highest levels in heart, skeletal muscle, and pancreas

## Anti-CTBP2 Antibody Picoband™ (monoclonal, 10E9D2) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## Anti-CTBP2 Antibody Picoband™ (monoclonal, 10E9D2) - Images

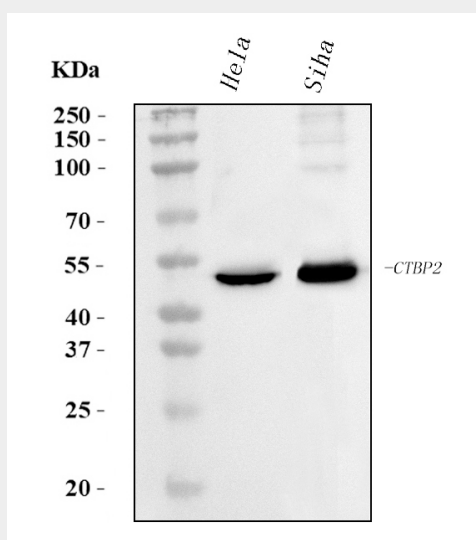


Figure 1. Western blot analysis of CTBP2 using anti-CTBP2 antibody (M02567-1).

Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human HeLa whole cell lysates,

Lane 2: human SiHa whole cell lysates.

After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with mouse anti-CTBP2 antigen affinity purified monoclonal antibody (Catalog # M02567-1) at 0.5 µg/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-mouse IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1001) with Tanon 5200 system. A specific band was detected for CTBP2 at approximately 50 kDa. The expected band size for CTBP2 is at 50 kDa.

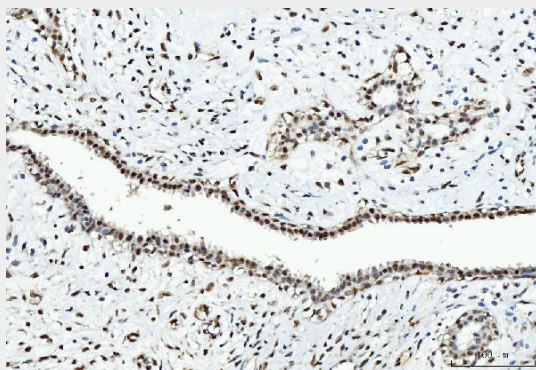


Figure 2. IHC analysis of CTBP2 using anti-CTBP2 antibody (M02567-1). CTBP2 was detected in a paraffin-embedded section of human breast cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 µg/ml mouse anti-CTBP2 Antibody (M02567-1) overnight at 4°C. Biotinylated goat anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1021) with DAB as the chromogen.

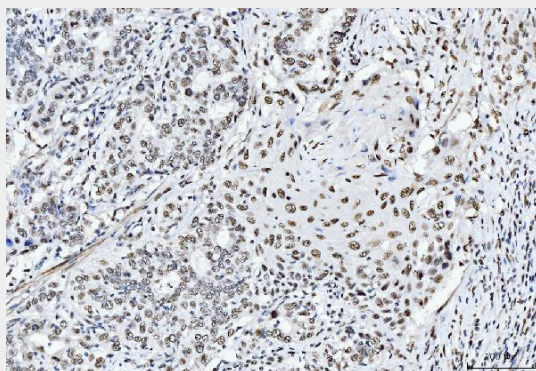


Figure 3. IHC analysis of CTBP2 using anti-CTBP2 antibody (M02567-1). CTBP2 was detected in a paraffin-embedded section of human metaplasia of squamous cells of the renal pelvis tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 µg/ml mouse anti-CTBP2 Antibody (M02567-1) overnight at 4°C. Biotinylated goat anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1021) with DAB as the chromogen.

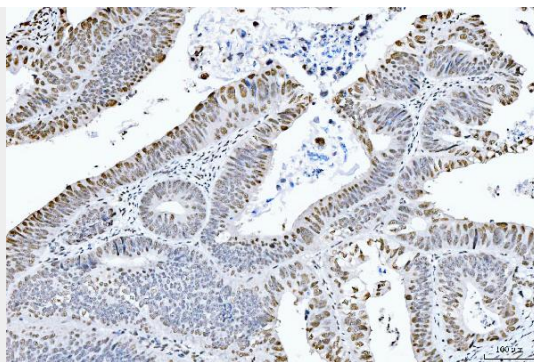


Figure 4. IHC analysis of CTBP2 using anti-CTBP2 antibody (M02567-1).

CTBP2 was detected in a paraffin-embedded section of human rectal moderately differentiated adenocarcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2  $\mu\text{g}/\text{ml}$  mouse anti-CTBP2 Antibody (M02567-1) overnight at 4°C. Biotinylated goat anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1021) with DAB as the chromogen.

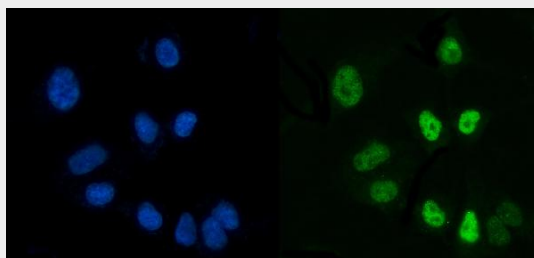


Figure 5. IF analysis of CTBP2 using anti-CTBP2 antibody (M02567-1).

CTBP2 was detected in an immunocytochemical section of A549 cells. 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 5  $\mu\text{g}/\text{mL}$  mouse anti-CTBP2 Antibody (M02567-1) overnight at 4°C. DyLight®488 Conjugated Goat Anti-Mouse IgG (BA1126) was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

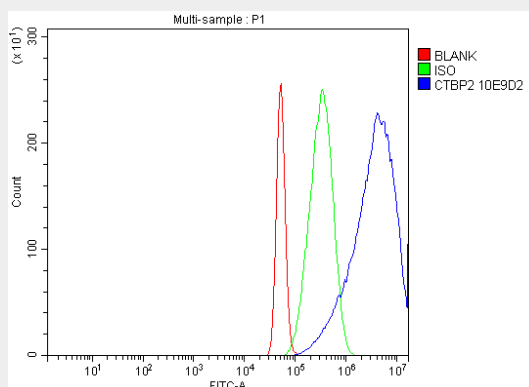


Figure 6. Flow Cytometry analysis of A431 cells using anti-CTBP2 antibody (M02567-1).

Overlay histogram showing A431 cells stained with M02567-1 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with mouse anti-CTBP2 Antibody (M02567-1, 1  $\mu\text{g}/1 \times 10^6$  cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-mouse IgG (BA1126, 5-10  $\mu\text{g}/1 \times 10^6$  cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was mouse IgG (1  $\mu\text{g}/1 \times 10^6$ ) used under the same conditions. Unlabelled sample (Red

line) was also used as a control.

**Anti-CTBP2 Antibody Picoband™ (monoclonal, 10E9D2) - Background**

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.