**Product Name: CtBP2 Rabbit Polyclonal Antibody**
**Catalog #: APRab09493**

## Summary

| | |
|---|---|
| **Production Name** | CtBP2 Rabbit Polyclonal Antibody |
| **Description** | Rabbit Polyclonal Antibody |
| **Host** | Rabbit |
| **Application** | WB,ELISA |
| **Reactivity** | Human,Mouse,Rat |

## Performance

| | |
|---|---|
| **Conjugation** | Unconjugated |
| **Modification** | Unmodified |
| **Isotype** | IgG |
| **Clonality** | Polyclonal |
| **Form** | Liquid |
| **Storage** | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles. |
| **Buffer** | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N. |
| **Purification** | Affinity purification |

## Immunogen

| | |
|---|---|
| **Gene Name** | CTBP2 |
| **Alternative Names** | CTBP2; C-terminal-binding protein 2; CtBP2 |
| **Gene ID** | 1488.0 |
| **SwissProt ID** | P56545.The antiserum was produced against synthesized peptide derived from human CtBP2. AA range:396-445 |

## Application

| | |
|---|---|
| **Dilution Ratio** | WB 1:500 - 1:2000.  ELISA: 1:5000. Not yet tested in other applications. |
| **Molecular Weight** | 49kD |

## Background

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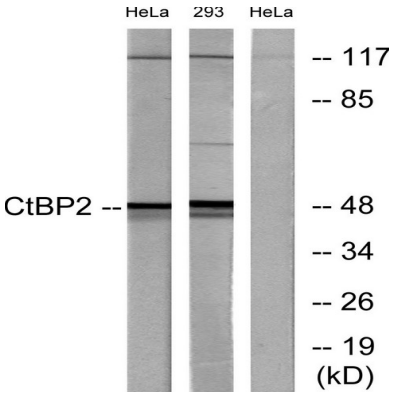
This gene produces alternative transcripts encoding two distinct proteins. One protein is a transcriptional repressor, while the other isoform is a major component of specialized synapses known as synaptic ribbons. Both proteins contain a NAD+ binding domain similar to NAD+-dependent 2-hydroxyacid dehydrogenases. A portion of the 3' untranslated region was used to map this gene to chromosome 21q21.3; however, it was noted that similar loci elsewhere in the genome are likely. Blast analysis shows that this gene is present on chromosome 10. Several transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Feb 2014],function:Corepressor targeting diverse transcription regulators. Isoform 2 probably acts as a scaffold for specialized synapses.,PTM:Isoform 2 is phosphorylated upon DNA damage, probably by ATM or ATR at Thr-179; Ser-181 and Ser-185. Phosphorylation by HIPK2 on Ser-428 induces proteasomal degradation.,similarity:Belongs to the D-isomer specific 2-hydroxyacid dehydrogenase family.,subunit:Interacts with the C-terminus of adenovirus E1A protein. Can form homodimers or heterodimers of CTBP1 and CTBP2. Interacts with HIPK2 (By similarity). Interacts with PNN, NRIP1 and WIZ.,tissue specificity:Ubiquitous. Highest levels in heart, skeletal muscle, and pancreas.,

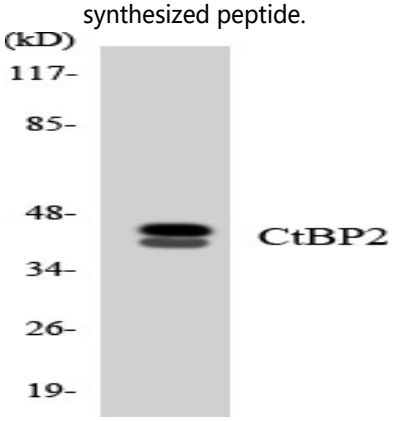
## Research Area

WNT;WNT-T CELLNotch;Pathways in cancer;Chronic myeloid leukemia;

## Image Data




Western blot analysis of lysates from HeLa and 293 cells, using CtBP2 Antibody. The lane on the right is blocked with the synthesized peptide.



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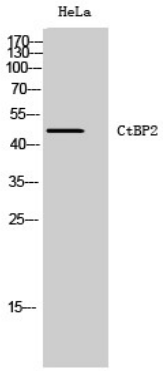
Western blot analysis of the lysates from HUVECcells using CtBP2 antibody.




Western Blot analysis of HeLa cells using CtBP2 Polyclonal Antibody cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit （SC-003,Inventbiotech,MN,USA）.

## Note

For research use only.