

# Recombinant Human C-terminal Binding Protein 1

**Cat. No.** CTBP1-2027H    **Lot. No.** (See product label)

## SPECIFICATION

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>         | Recombinant human CtBP1 was expressed in <i>E. coli</i> and purified by using conventional chromatography techniques. MW = 47.5 kDa (440aa).                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Species</b>                  | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Source</b>                   | <i>E. coli</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Description</b>              | C-terminal-binding protein 1 isoform 1, also known as CtBP1, is expressed from embryo to adult. This protein binds to the C-terminus of adenovirus E1A. It is a cellular phosphoprotein that associates with various proteins and functions as a corepressor of transcription. Also, CtBP1 associates in complexes with histone deacetylases (HDAC), the G9a histone methyltransferase, and LSD1 histone demethylase illustrating its role in transcriptional repression.                                                   |
| <b>Sequences Of Amino Acids</b> | MGSSHLLNKG LPLGVRPPIM NGPLHPRPLV ALLDGRDCTV EMPILKDVAT<br>VAFCDASTQ EIHEKVLNEA VGALMYHTIT LTREDLEKFK ALRIIVRIGS<br>GFDNIDIKSA GDLGIAVCNV PAASVEETAD STLCHILNLY RRATWLHQAL<br>REGTRVQSVE QIREVASGAA RIRGETLGII GLGRVGQAVA LRAKAFGFNV<br>LFYDPYLSDG VERALGLQRV STLQDLLFHS DCVTLHCGLN EHNHHLINDF<br>TVKQMRQGAF LVNTARGGLV DEKALAQALK EGRIRGAALD VHESEPFSSFS<br>QGPLKDAPNL ICTPHAAWYS EQASIEMREE AAREIRRAIT GRIPDSLKNC<br>VNKDHLTAAT HWASMDPAVV HPELNGAAYR YPPGVVGVP TGIPAAVEGI<br>VPSAMSLSHG LPPVAHPPHA PSPGQTVKPE ADRDHASDQL. |

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|                      |                                                                                                                                                       |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>        | > 90% by SDS – PAGE.                                                                                                                                  |
| <b>Form</b>          | Liquid. In 20mM Tris-HCl buffer (pH8.0) containing 100mM NaCl, 10% glycerol.                                                                          |
| <b>Concentration</b> | 1 mg/ml (determined by Bradford assay).                                                                                                               |
| <b>Storage</b>       | Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles. |

## GENE INFORMATION

|                            |                                                                                                                                                |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | CTBP1 C-terminal binding protein 1 [ Homo sapiens ]                                                                                            |
| <b>Synonyms</b>            | CTBP1; C-terminal binding protein 1; BARS; MGC104684; brefeldin A-ribosylated substrate; C-terminal-binding protein 1; CtBP1; EC 1.1.1.-; CTBP |
| <b>Gene ID</b>             | 1487                                                                                                                                           |
| <b>mRNA Refseq</b>         | NM_001012614                                                                                                                                   |
| <b>Protein Refseq</b>      | NP_001012632                                                                                                                                   |
| <b>MIM</b>                 | 602618                                                                                                                                         |
| <b>UniProt ID</b>          | Q13363                                                                                                                                         |
| <b>Chromosome Location</b> | 4p16                                                                                                                                           |
| <b>Pathway</b>             | Chronic myeloid leukemia; Notch signaling pathway; Pathways in cancer; Wnt signaling pathway                                                   |

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**Function**

NAD or NADH binding; cofactor binding; oxidoreductase activity; oxidoreductase activity, acting on the CH-OH group of donors, NAD or NADP as acceptor; protein C-terminus binding; protein binding; protein domain specific binding; transcription factor activity; transcription factor binding; transcription repressor activity

**PDB rendering based on 1hku.**

