

DESCRIPTION

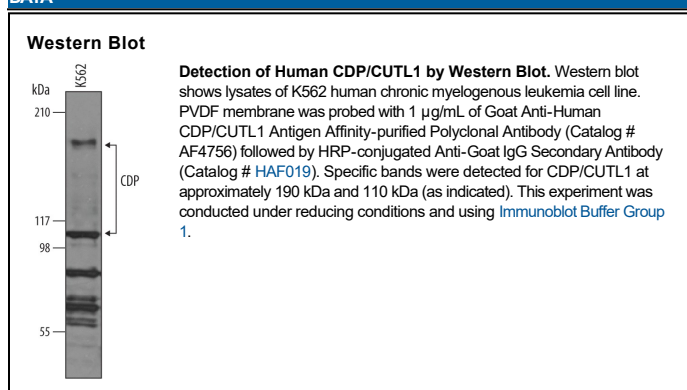
| | |
|---------------------------|---|
| Species Reactivity | Human |
| Specificity | Detects human CDP/CUTL1 in direct ELISAs and Western blots. |
| Source | Polyclonal Goat IgG |
| Purification | Antigen Affinity-purified |
| Immunogen | <i>E. coli</i> -derived recombinant human CDP/CUTL1 Ile64-Ser268 Accession # P39880 |
| Formulation | Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS. |

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

| | Recommended Concentration | Sample |
|---------------------|----------------------------------|---------------|
| Western Blot | 1 µg/mL | See Below |

DATA



PREPARATION AND STORAGE

| | |
|--------------------------------|--|
| Reconstitution | Reconstitute at 0.2 mg/mL in sterile PBS. |
| Shipping | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C |
| Stability & Storage | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution. |

BACKGROUND

CDP (CCAAT Displacement Protein; also CUX-1 and CUTL-1) is a 180-190 kDa member of the CUT homeobox family of proteins. It is found in multiple cell types, and appears to act as a negative regulator of transcription for genes as diverse as c-myc, CD8 and TGF-βRII. Repression is assumed to occur either by direct DNA interaction, which interferes with transcriptional activator binding to gene promoters, or through the recruitment of active HDACs to target gene promoter sequences. Human CDP is 1505 amino acids (aa) in length. It contains three consecutive DNA-binding CUT domains (aa 542-629; 934-1007; 1125-1202) plus one C-terminal homeobox domain (aa 1244-1303). CDP undergoes phosphorylation, resulting in its inactivation, and reportedly also homodimerizes. There are multiple splice variants (termed CASP), ranging from 75-85 kDa in size. Most are characterized by the presence of a unique 260 aa substitution for aa 410-1505 that contains a Golgi transmembrane domain. CDP also undergoes extensive proteolytic processing, creating functional DNA binding C-terminal fragments that range from 75-110 kDa in size. Over aa 64-268, human CDP shares 97% aa identity with mouse CDP.