

## Product datasheet for **AP01232PU-N**

### CUX1 Rabbit Polyclonal Antibody

#### Product data:

|                         |  |
|-------------------------|--|
| Product Type:           | Primary Antibodies   |
| Applications:           | IF, IHC, WB  |
| Recommended Dilution:   | <b>Western Blot:</b> 1/500-1/1000.<br><b>Immunofluorescence:</b> 1/50-1/200.<br><b>Immunohistochemistry on paraffin sections:</b> 1/50-1/200.                        |
| Reactivity:             | Human, Mouse, Rat  |
| Host:                   | Rabbit   |
| Clonality:              | Polyclonal   |
| Immunogen:              | Synthetic peptide, corresponding to amino acids N-terminus of Human CDP.   |
| Specificity:            | This antibody detects endogenous levels of CDP protein. (region surrounding Gln24)   |
| Formulation:            | Phosphate buffered saline (PBS), pH~7.2<br>State: Aff - Purified<br>State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE).<br>Preservative: 0.05% Sodium Azide |
| Concentration:          | 1.0 mg/ml  |
| Purification:           | Affinity Chromatography using epitope-specific immunogen.  |
| Conjugation:            | Unconjugated   |
| Storage:                | Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.<br>Avoid repeated freezing and thawing.   |
| Stability:              | Shelf life: One year from despatch.  |
| Predicted Protein Size: | ~ 78 kDa   |
| Gene Name:              | cut like homeobox 1  |
| Database Link:          | <a href="#">Entrez Gene 1523 Human Q13948</a>  |



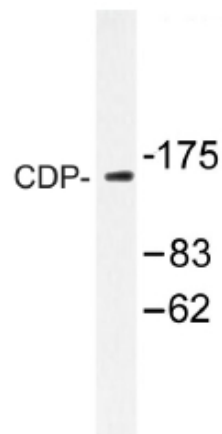
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**Background:**

CDP (for CCAAT displacement protein) was identified as a repressor for transcription of developmentally regulated genes. It is a homeodomain protein that appears to compete with transcriptional activating proteins for binding to the promoter regions of various genes. CDP contains three cut repeats which function as DNA binding domains. It has been demonstrated that cut repeat domains have the capacity to bind to DNA in conjunction with or independently of homeodomain DNA binding. CDP has been shown to be the DNA-binding subunit of the HiNF-D complex, which contains cyclin A, Cdc2 and an Rb-related protein in addition to CDP. Histone expression is required for the transition to S phase in the cell cycle. The HiNF-D complex regulates the transcription of Histone H4, H3 and H1 genes, allowing cells to progress from G1 to S phase.

**Synonyms:**

Homeobox protein cut-like 1, CCAAT displacement protein, CUX1

**Product images:**

Western blot (WB) analysis of CDP antibody in extracts from K562 cells.