

# Recombinant Human CDX2, His-tagged

**Cat. No.** CDX2-11075H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| <b>Product Overview</b> | Recombinant Human CDX2 protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>ProteinLength</b>    | 1-180a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Description</b>      | The protein encoded by this gene shares a significant similarity with Schizosaccharomyces pombe cdc5 gene product, which is a cell cycle regulator important for G2/M transition. This protein has been demonstrated to act as a positive regulator of cell cycle G2/M progression. It was also found to be an essential component of a non-snRNA spliceosome, which contains at least five additional protein factors and is required for the second catalytic step of pre-mRNA splicing. |
| <b>Storage</b>          | The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Storage Buffer</b>   | 1M PBS (58mM Na <sub>2</sub> HPO <sub>4</sub> , 17mM NaH <sub>2</sub> PO <sub>4</sub> , 68mM NaCl, pH8. ) added with 300mM Imidazole and 0.7% Sarcosyl, 15% glycerol.                                                                                                                                                                                                                                                                                                                      |

## GENE INFORMATION

|                  |                                              |
|------------------|----------------------------------------------|
| <b>Gene Name</b> | CDX2 caudal type homeobox 2 [ Homo sapiens ] |
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| <b>Official Symbol</b>     | CDX2                                                                                                                                                                                                                                                                                                                                                        |
| <b>Synonyms</b>            | CDX2; caudal type homeobox 2; caudal type homeo box transcription factor 2 , CDX3; homeobox protein CDX-2; caudal-type homeobox protein 2; caudal type homeobox transcription factor 2; caudal type homeo box transcription factor 2; CDX3; CDX-3;                                                                                                          |
| <b>Gene ID</b>             | 1045                                                                                                                                                                                                                                                                                                                                                        |
| <b>mRNA Refseq</b>         | NM_001265                                                                                                                                                                                                                                                                                                                                                   |
| <b>Protein Refseq</b>      | NP_001256                                                                                                                                                                                                                                                                                                                                                   |
| <b>MIM</b>                 | 600297                                                                                                                                                                                                                                                                                                                                                      |
| <b>UniProt ID</b>          | Q99626                                                                                                                                                                                                                                                                                                                                                      |
| <b>Chromosome Location</b> | 13q12.2                                                                                                                                                                                                                                                                                                                                                     |
| <b>Pathway</b>             | Incretin Synthesis, Secretion, and Inactivation, organism-specific biosystem; Integration of energy metabolism, organism-specific biosystem; Metabolism, organism-specific biosystem; Regulation of Insulin Secretion, organism-specific biosystem; Synthesis, Secretion, and Inactivation of Glucagon-like Peptide-1 (GLP-1), organism-specific biosystem; |
| <b>Function</b>            | sequence-specific DNA binding transcription factor activity; transcription corepressor activity; transcription regulatory region sequence-specific DNA binding;                                                                                                                                                                                             |