

Recombinant Human CDX1 Protein, T7-His-TEV-tagged

Cat. No. CDX1-488H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Full-length human CDX1 cDNA (264 aa) was constructed with codon optimization using gene synthesis technology and expressed with a small T7-His-TEV cleavage site Tag (31aa) fusion at its N-terminal. It was expressed in E. coli as inclusion bodies.
Species	Human
Source	E.coli
Description	This gene is a member of the caudal-related homeobox transcription factor gene family. The encoded DNA-binding protein regulates intestine-specific gene expression and enterocyte differentiation. It has been shown to induce expression of the intestinal alkaline phosphatase gene, and inhibit beta-catenin/T-cell factor transcriptional activity.
Form	Liquid
Molecular Mass	31.4 kD
AA Sequence	MASMTGGQQMGRGHHHHHHENLYFQGGEFGSYVG YVLDKDSPVYPGPAPASL GLGPQAYGPPAPPPAPPQYPDFSSYSHVEPAPAPPTAWGAPFPAPKDDWAAAYGP GPAAPAASPASLAFGPPPDFSPVPAPPGPGPGLLAQPLGGPGTPSSPGAQRPTPY EWMRRSVAAGGGGGSGKTRTKDKYRVVYTDHQRLELEKEFHYSRYITIRRKSELAA NLGLTERQVKIWFQNRRAKERKVNKKKQQQQPPQPPMAHDITATPAGPSLGGLC PSNTSLLATSSPMPVKEEFLP

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Purity	> 93% by SDS-PAGE
Applications	1. May be used for in vitro CDX1 mediated gene transcription regulation study in activated KRAS-mediated transcriptional activation of PRKD1 pathway for intestinal cells by intracellular delivery of this recombinant CDX1 protein with protein delivery reagent such as ProFectin reagent kit. 2. May be used for mapping CDX1 protein-protein interaction. 3. May be used as specific substrate protein for kinase, and ubiquitin (Sumo pathway) related enzyme functional screening assays. 4. Potential biomarker protein for colorectal cancer or gastric cancer diagnosis. 5. As native human CDX1 antigen for specific antibody production.
Storage	Keep at -80 centigrade for long term storage. Product is stable at 4 centigrade for at least two weeks.
Concentration	0.5 mg/mL
Storage Buffer	20 mM pH 8.0 Tris-HCl Buffer, with proprietary formulation of NaCl, KCl, EDTA, Sucrose, DTT and others.

GENE INFORMATION

Gene Name	CDX1 caudal type homeobox 1 [Homo sapiens (human)]
Official Symbol	CDX1
Synonyms	CDX1; caudal type homeobox 1; homeobox protein CDX-1; caudal type homeo box transcription factor 1; caudal type homeobox transcription factor 1; caudal-type homeobox protein 1; caudal-type homeobox protein CDX1
Gene ID	1044

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mRNA Refseq	NM_001804
Protein Refseq	NP_001795
MIM	600746
UniProt ID	P47902

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