

CDX1 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP6130a**Specification**

CDX1 Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [P47902](#)**CDX1 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 1044**Other Names**

Homeobox protein CDX-1, Caudal-type homeobox protein 1, CDX1

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP6130a](/product/products/AP6130a) was selected from the C-term region of human CDX1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

CDX1 Antibody (C-term) Blocking Peptide - Protein Information**Name** CDX1**Function**

Plays a role in transcriptional regulation (PubMed: [24623306](http://www.uniprot.org/citations/24623306)). Involved in activated KRAS-mediated transcriptional activation of PRKD1 in colorectal cancer (CRC) cells (PubMed: [24623306](http://www.uniprot.org/citations/24623306)). Binds to the PRKD1 promoter in colorectal cancer (CRC) cells (PubMed: [24623306](http://www.uniprot.org/citations/24623306)). Could play a role in the terminal differentiation of the intestine. Binds preferentially to methylated DNA (PubMed: [28473536](http://www.uniprot.org/citations/28473536)).

Cellular Location

Nucleus.

Tissue Location

Intestinal epithelium.

CDX1 Antibody (C-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

CDX1 Antibody (C-term) Blocking Peptide - Images**CDX1 Antibody (C-term) Blocking Peptide - Background**

CDX1 is a member of the caudal-type homeobox family of genes. These are cognates of the *Drosophila* caudal gene, which is required for anterior-posterior regional identity. Homologous genes have been found in mouse, rat, chicken, and *Xenopus*. The caudal-type homeobox genes are members of the hexapeptide (HEX) superclass, containing a conserved hexapeptide motif upstream of the homeodomain. Bonner et al. isolated the human CDX1 gene from a small intestine cDNA library using a murine Cdx1 cDNA probe. The nucleotide sequence of CDX1 was 81% identical to murine Cdx1 and predicted a 265-amino acid protein with 85% identity to the mouse protein. Northern analysis indicated that expression of CDX1 in adults appears to be limited to the intestine and colon. CDX1 plays a role in the terminal differentiation of the intestine.

CDX1 Antibody (C-term) Blocking Peptide - References

Domon-Dell, C., et al., *Oncogene* 22(39):7913-7921 (2003). Suh, E.R., et al., *J. Biol. Chem.* 277(39):35795-35800 (2002). Mizoshita, T., et al., *Gastric Cancer* 4(4):185-191 (2001). Mallo, G.V., et al., *Int. J. Cancer* 74(1):35-44 (1997). Bonner, C.A., et al., *Genomics* 28(2):206-211 (1995).