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CDX1 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP6130a

Specification

CDX1 Antibody (C-term) Blocking Peptide - Product Information

Primary 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 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). Involved in activated KRAS-mediated transcriptional activation of PRKD1 in colorectal cancer (CRC) cells (PubMed:24623306). Binds to the PRKD1 promoter in colorectal cancer (CRC) cells (PubMed:24623306). Could play a role in the terminal differentiation of the intestine. Binds preferentially to methylated DNA (PubMed: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).