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CDX1 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6130a

Product Information

Application	WB, IHC-P, E
Primary Accession	P47902
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	28138
Antigen Region	236-265

Additional Information

Gene ID	1044
Other Names	Homeobox protein CDX-1, Caudal-type homeobox protein 1, CDX1
Target/Specificity	This CDX1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 236-265 amino acids from the C-terminal region of human CDX1.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	CDX1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

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.

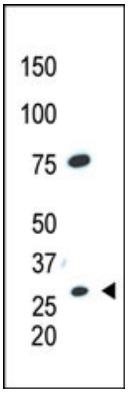
Background

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.

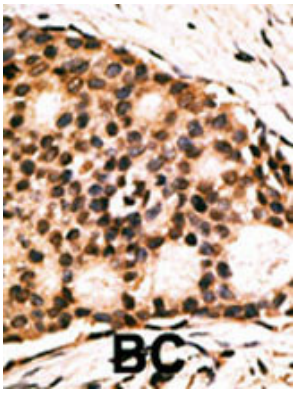
References

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).

Images



The anti-CDX1 C-term Pab (Cat. #AP6130a) is used in Western blot to detect CDX1 in HL60 cell lysate.



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

Citations

- Functional Significance of MMP3 and TIMP2 Polymorphisms in Cleft Lip/Palate.