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Anti-CDX2 Antibody

Catalog # AP51075

Product Information

Application	WB, IF/IC
Primary Accession	Q99626
Reactivity	Human, Mouse, Rat, Pig
Host	Rabbit
Clonality	Polyclonal
Calculated MW	33520

Additional Information

Gene ID	1045
Other Names	CDX3; Homeobox protein CDX-2; CDX-3; Caudal-type homeobox protein 2
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human CDX2. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

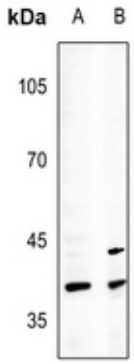
Name	CDX2
Synonyms	CDX3
Function	Transcription factor which regulates the transcription of multiple genes expressed in the intestinal epithelium (By similarity). Binds to the promoter of the intestinal sucrase-isomaltase SI and activates SI transcription (By similarity). Binds to the DNA sequence 5'-ATAAAAACTTAT-3' in the promoter region of VDR and activates VDR transcription (By similarity). Binds to and activates transcription of LPH (By similarity). Activates transcription of CLDN2 and intestinal mucin MUC2 (By similarity). Binds to the 5'-AATTTTTTACAACACCT-3' DNA sequence in the promoter region of CA1 and activates CA1 transcription (By similarity). Important in broad range of functions from early differentiation to maintenance of the intestinal epithelial lining of both the small and large intestine. Binds preferentially to methylated DNA (PubMed:28473536).
Cellular Location	Nucleus {ECO:0000250|UniProtKB:P43241}.

Tissue Location	Detected in small intestine, colon and pancreas.

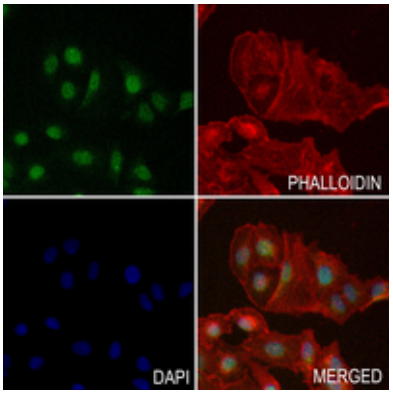
References

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Mallo G.V.,et al.Int. J. Cancer 74:35-44(1997).
Sivagnanasundaram S.,et al.Br. J. Cancer 84:218-225(2001).
Tanizawa Y.,et al.Submitted (JUN-1997) to the EMBL/GenBank/DDBJ databases.
Dunham A.,et al.Nature 428:522-528(2004).

Images



Western blot analysis of CDX2 expression in PC12 (A), CT26 (B) whole cell lysates. (Predicted band size: 33 kD; Observed band size: 38 kD)



Immunofluorescent analysis of CDX2 staining in H460 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

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