10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CDX2 Antibody

Purified Mouse Monoclonal Antibody (Mab)
Catalog # AP52775

Product Information

Application	WB, ICC, IP
Primary Accession	Q99626
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	33520

Additional Information

Gene ID	1045
Other Names	Caudal type homeo box 2;Caudal type homeo box transcription factor 2;Caudal type homeobox 2;Caudal type homeobox protein 2;caudal type homeobox transcription factor 2; Caudal-type homeobox protein 2;CDX 2;CDX 3;CDX-3;Cdx2;CDX2_HUMAN;CDX3;Homeobox protein CDX 2;Homeobox protein CDX-2;Homeobox protein CDX2.
Dilution	WB~~1:1000 ICC~~1:100 IP~~1:500
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

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.

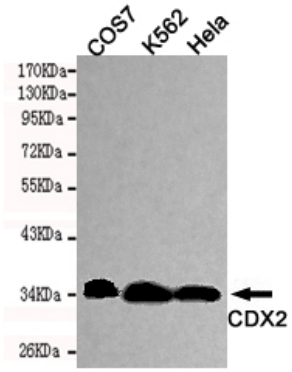
Background

Involved in the transcriptional regulation of multiple genes expressed in the intestinal epithelium. Important in broad range of functions from early differentiation to maintenance of the intestinal epithelial lining of both the small and large intestine.

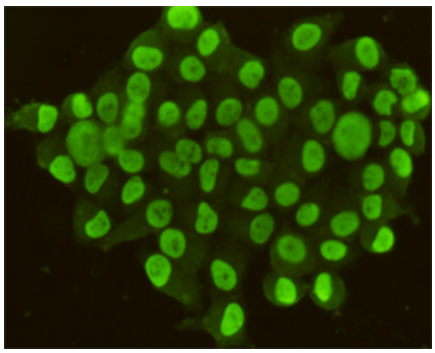
References

Drummond F.J.,et al.Ann. Hum. Genet. 61:393-400(1997).
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

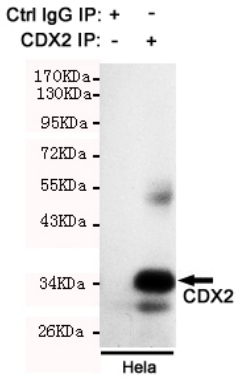


Western blot detection of CDX2 in Hela,COS7 and K562 cell lysates using CDX2 mouse mAb (1:1000 diluted).Predicted band size:34KDa.Observed band size:34KDa.



Immunocytochemistry stain of Hela using CDX2 mouse mAb (1:100).

Immunoprecipitation analysis of Hela cell lysate using CDX2 mouse mAb.



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