

Anti-CDX2 (GI Epithelial Marker) Antibody
Mouse Monoclonal Antibody
Catalog # AH13083**Specification**

Anti-CDX2 (GI Epithelial Marker) Antibody - Product Information

Application	IHC-P, IF, FC, E
Primary Accession	O99626
Other Accession	174249
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse / IgG2a, kappa
Calculated MW	33520

Anti-CDX2 (GI Epithelial Marker) Antibody - Additional Information**Gene ID** 1045**Other Names**

Caudal type homeobox 2; Caudal type homeobox transcription factor 2; Caudal-type homeobox protein 2; CDX2

Application Note

IHC-P ~ ~ N/A
IF ~ ~ 1:50 ~ 200
FC ~ ~ 1:10 ~ 50
E ~ ~ N/A

Format

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage

Store at 2 to 8°C. Antibody is stable for 24 months.

Precautions

Anti-CDX2 (GI Epithelial Marker) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Anti-CDX2 (GI Epithelial Marker) Antibody - 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'-ATAAAACTTAT-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}.

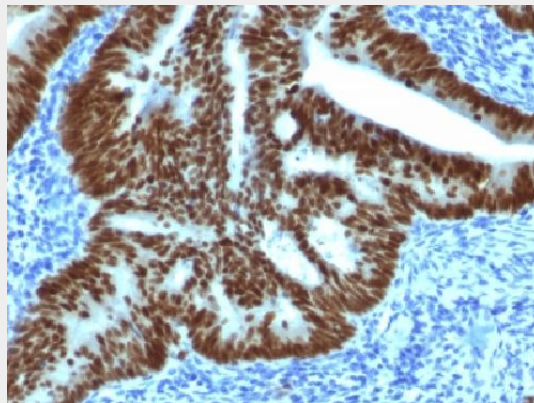
Tissue Location

Detected in small intestine, colon and pancreas.

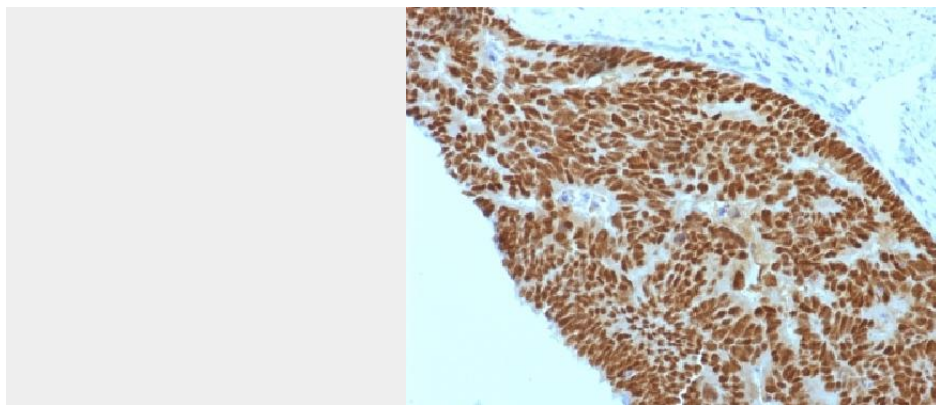
Anti-CDX2 (GI Epithelial Marker) Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-CDX2 (GI Epithelial Marker) Antibody - Images

Formalin-fixed, paraffin-embedded Human Colon Carcinoma stained with CDX2 Mouse Monoclonal Antibody (CDX2/1690).



Formalin-fixed, paraffin-embedded Human Colon Carcinoma stained with CDX2 Mouse Monoclonal Antibody (CDX2/1690).

Anti-CDX2 (GI Epithelial Marker) Antibody - Background

The intestine-specific transcription factors CDX1 and CDX2 are important for directing intestinal development, differentiation, proliferation and maintenance of the intestinal phenotype. CDX2 protein expression has been seen in GI carcinomas. Anti-CDX2 has been useful to establish GI origin of metastatic adenocarcinomas and carcinoids and is especially useful to distinguish metastatic colorectal adenocarcinoma from lung adenocarcinoma. However, mucinous carcinomas of the ovary also express CDX2 protein. It limits the usefulness of this marker in the distinction of metastatic colorectal adenocarcinoma from mucinous carcinoma of the ovary.