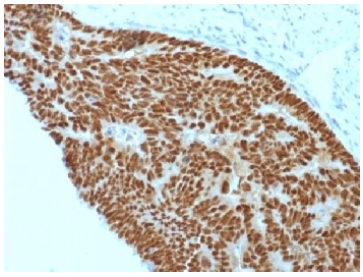
CDX2 Antibody [clone CDX2/1690] (V3415)

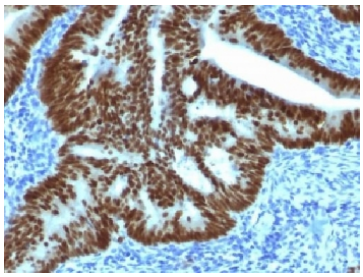
Catalog No.	Formulation	Size
V3415-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3415-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3415SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

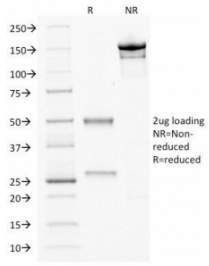
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2a, kappa
Clone Name	CDX2/1690
Purity	Protein G affinity chromatography
Buffer	1X PBS, pH 7.4
UniProt	Q99626
Localization	Nuclear
Applications	ELISA: 2-4ug/ml (order BSA/azide-free format) Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT
Limitations	This CDX2 antibody is available for research use only.



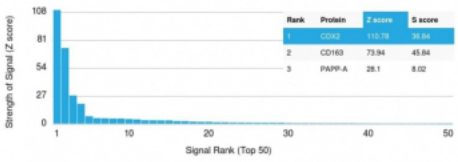
CDX2 Antibody Colon Carcinoma IHC. Immunohistochemistry testing of FFPE human colon carcinoma with CDX2 antibody (clone CDX2/1690). Required HIER: boil sections in 10mM citrate buffer, pH6, for 10-20 min.



CDX2 Antibody Human Colon Carcinoma Tissue IHC. Immunohistochemistry testing of FFPE human colon carcinoma with CDX2 antibody (clone CDX2/1690). Required HIER: boil sections in 10mM citrate buffer, pH6, for 10-20 min.



SDS-PAGE Analysis of Purified, BSA-Free CDX2 Antibody (clone CDX2/1690). Confirmation of Integrity and Purity of the Antibody.



CDX2 Antibody Protein Microarray Validation. HuProt microarray analysis of CDX2 / Caudal type homeobox 2 specificity using CDX2 antibody, clone CDX2/1690, against more than 19,000 full-length human proteins. The CDX2 monoclonal antibody demonstrates a strong and specific binding profile, with CDX2 ranked as the top target by Z score and a clear separation from the next highest signals, supporting high target specificity. The Z score reflects signal intensity relative to the array mean, while the S score represents the difference in signal between the top-ranked target and the next highest binding protein, confirming selective recognition of CDX2 with minimal cross-reactivity.

Description

CDX2 antibody is an established reagent for studying caudal type homeobox 2, a transcription factor that regulates intestinal development and differentiation. CDX2 is expressed primarily in the nuclei of epithelial cells lining the small and large intestines. It directs gene expression programs that define intestinal identity, maintain epithelial renewal, and support proper absorptive and secretory functions. Because of its restricted expression pattern, CDX2 has become a valuable marker in developmental biology and diagnostic pathology.

CDX2 functions as a transcription factor with a homeobox DNA binding domain. It regulates genes involved in enterocyte differentiation, mucin production, and cell polarity. During development, CDX2 ensures the proper specification of intestinal tissue from endodermal precursors. In the adult intestine, it maintains epithelial turnover and contributes to barrier integrity. Altered CDX2 expression has been linked to disease, including colorectal cancer and gastric metaplasia.

The CDX2 antibody clone CDX2/1690 provides specific recognition of this transcription factor. Clone CDX2/1690 has been widely adopted in pathology for distinguishing colorectal adenocarcinoma from other tumor types. Its nuclear staining pattern in intestinal epithelial cells offers diagnostic clarity in identifying tumors of gastrointestinal origin. In basic research, the antibody is applied to studies of intestinal development, epithelial renewal, and tumor biology.

Loss or reduction of CDX2 expression is associated with poor prognosis in colorectal cancer, highlighting its role as both a biomarker and a functional regulator. Research using clone CDX2/1690 has clarified how CDX2 expression influences tumor differentiation, invasion, and patient outcomes. The protein also informs regenerative medicine studies, where modulation of CDX2 may aid in directing stem cell differentiation toward intestinal lineages.

NSJ Bioreagents provides this CDX2 antibody to support investigations in developmental biology, oncology, and gastrointestinal pathology. Alternate names for this protein include caudal type homeobox transcription factor 2 antibody,

intestinal specific transcription factor antibody, CDX homeobox protein antibody, and intestinal epithelium transcription regulator antibody. These reflect the varied terminology used across different fields.

This antibody is part of a broader antibody panel offered by NSJ Bioreagents.

Application Notes

The concentration stated for each application is a general starting point. Variations in protocols, secondaries and substrates may require the CDX2 antibody to be titered up or down for optimal performance.

Immunogen

Amino acids 150-249 from the human protein were used as the immunogen for this CDX2 antibody.

Storage

Store the CDX2 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

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