



Qty: 100 µg/200 µL

Mouse anti-CDX2

Catalog No. 39-7800

Lot No.

Mouse anti-CDX2

FORM

This monoclonal antibody is supplied as a 200 µL aliquot at a concentration of 0.5 mg/mL in PBS, pH 7.4, containing 0.1% sodium azide. This antibody is highly purified from mouse ascites by protein A chromatography.

CLONE: ZC007

ISOTYPE: Mouse IgG₁-kappa

IMMUNOGEN

Recombinant full-length human CDX2 protein, which is 93 and 94% homologous with mouse and rat, respectively

SPECIFICITY

This antibody is specific for the CDX2 (Caudal type homeobox transcription factor 2, CDX3, homeobox protein CDX-2) protein. On Western blots, it identifies the target band at ~40 kDa.

REACTIVITY

Reactivity has been confirmed with human Caco-2 cell lysates by Western blotting and with paraffin-embedded normal human colon tissue by immunohistochemistry. Based on amino acid sequence homology, reactivity with mouse and rat is expected.

Sample	ELISA	Immuno-histochemistry (paraffin)	Western Blotting
Human	ND	+++*	+++
Mouse	ND	ND	ND
Rat	ND	ND	ND
Immunogen	+++	ND	+++

(Excellent +++, Good++, Poor +, No reactivity 0, Not applicable N/A, Not Determined ND)

USAGE

Working concentrations for specific applications should be determined by the investigator. Appropriate concentrations will be affected by several factors, including secondary antibody affinity, antigen concentration, sensitivity of detection method, temperature and length of incubations, etc. The suitability of this antibody for applications other than those listed below has not been determined. The following concentration ranges are recommended starting points for this product.

ELISA: 0.1-1.0 µg/mL

Immunochemistry (paraffin)*: 5 µg/mL

Western Blotting: 1 µg/mL

*For immunohistochemistry with formalin-fixed, paraffin-embedded (FFPE) tissues, heat induced epitope retrieval (HIER) with citrate buffer, pH 6.0, is required prior to staining.

STORAGE

Store at 2-8°C for up to one month. Store at -20°C for long-term storage. Avoid repeated freezing and thawing.

(cont'd)

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PI397800

(Rev 10/08) DCC-08-1089

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BACKGROUND

Caudal type homeobox transcription factor 2 (CDX2, CDX3, homeobox protein CDX-2), is a caudal type homeobox gene that encodes an intestine-specific transcription factor that is expressed early in intestinal development.¹ It may also be involved in the regulation of proliferation and differentiation of intestinal epithelial cells.¹ CDX2 is expressed in the nuclei of epithelial cells throughout the intestine, from duodenum to rectum.² The CDX2 protein is expressed in primary and metastatic colorectal carcinomas and has also been demonstrated in the intestinal metaplasia of the stomach and intestinal-type gastric cancer, while it is not expressed in the normal gastric mucosa.^{3,4}

REFERENCES

1. Drummond F, Putt, et al. *Ann Hum Genet* 61:393-400, 1997.
2. Silberg DG, et al. *Gastroenterology* 119(4):961-971, 2000.
3. Hinoi T, et al. *Am J Pathol* 159(6):2239-2248, 2001.
4. Bai YQ, et al. *Cancer Lett* 176(1):47-55, 2002.

RELATED PRODUCTS

Product	Conjugate	Cat. No.
Protein A	Sepharose [®] 4B	10-1041
rec-Protein G	Sepharose [®] 4B	10-1241

Conjugate	ZyMAX[™] Goat x Rabbit IgG (H+L)	ZyMAX[™] Goat x Mouse IgG (H+L)
Purified	81-6100	81-6500
FITC	81-6111	81-6511
TRITC	81-6114	81-6514
Cy [™] 3	81-6115	81-6515
Cy [™] 5	81-6116	81-6516
HRP	81-6120	81-6520
AP	81-6122	81-6522
Biotin	81-6140	81-6540

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