

## Anti-CDX2 Antibody (5U460)

## Product Details

Ig Type:	IgG
Reactivity:	Human,Rat,Mouse
Molecular Weight:	Theoretical: 34 kDa. Actual: 40 kDa.
Clone:	5U460
Purification:	Protein A purified

## Applications

## Verified Activity:

1. Paraformaldehyde-fixed, paraffin embedded Mouse Colon; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with CDX2 Monoclonal Antibody, Unconjugated (TMAB-04195) at 1:200 overnight at 4°C, followed by conjugation to the Goat Anti-Rabbit IgG H&L-HRP and DAB staining.
2. Paraformaldehyde-fixed, paraffin embedded Rat Colon; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with CDX2 Monoclonal Antibody, Unconjugated (TMAB-04195) at 1:200 overnight at 4°C, followed by conjugation to the Goat Anti-Rabbit IgG H&L-HRP and DAB staining.
3. Paraformaldehyde-fixed, paraffin embedded Human Colon; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with CDX2 Monoclonal Antibody, Unconjugated (TMAB-04195) at 1:200 overnight at 4°C, followed by conjugation to the Goat Anti-Rabbit IgG H&L-HRP and DAB staining.
4. Paraformaldehyde-fixed, paraffin embedded Human Colon Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with CDX2 Monoclonal Antibody, Unconjugated (TMAB-04195) at 1:200 overnight at 4°C, followed by conjugation to the Goat Anti-Rabbit IgG H&L-HRP and DAB staining.
5. Paraformaldehyde-fixed, paraffin embedded Human Small Intestine; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with CDX2 Monoclonal Antibody, Unconjugated (TMAB-04195) at 1:200 overnight at 4°C, followed by conjugation to the Goat Anti-Rabbit IgG H&L-HRP and DAB staining.
6. (Negative control) Paraformaldehyde-fixed, paraffin embedded Human Kidney; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with CDX2 Monoclonal Antibody, Unconjugated (TMAB-04195) at 1:200 overnight at 4°C, followed by conjugation to the Goat Anti-Rabbit IgG H&L-HRP and DAB staining.
7. The HT-29 (H) cells were fixed with 4% PFA (10 min at r. T.) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C, the cells then were incubated in 5% BSA to block non-specific protein-protein interactions (30 min at r. T.), followed by secondary antibody incubation for 40 min at room temperature. Primary Antibody (green): Rabbit Anti-CDX2 antibody (TMAB-04195, 1: 100); Isotype Control (orange): Rabbit IgG. Blank control (black): PBS. Acquisition of 20,000 events was performed.
8. The HCT-116 (H) cells were fixed with 4% PFA (10 min at r. T.) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C, the cells then were incubated in 5% BSA to block non-specific protein-protein interactions (30 min at r. T.), followed by secondary antibody incubation for 40 min at room temperature. Primary Antibody (green): Rabbit Anti-CDX2 antibody (TMAB-04195, 1: 100); Isotype Control (orange): Rabbit IgG. Blank control (black): PBS. Acquisition of 20,000 events was performed.

9. Caco-2 (H) cells are differentiated, 25 µg total protein per lane of cell lysates (see on figure) probed with CDX2 monoclonal antibody, unconjugated (TMAB-04195) at 1:500 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r. T. for 60 min.

10. 4% Paraformaldehyde-fixed Caco-2 (H) cell; Triton X-100 at r. T. for 20 min; Antibody incubation with (CDX2) monoclonal Antibody, unconjugated (TMAB-04195) 1: 100, 90 min at 37°C; followed by BF488 conjugated Goat Anti-Rabbit IgG antibody (green, BF488) at 37°C for 90 min, DAPI (blue) was used to stain the cell nuclei. PBS instead of the primary antibody was used as the blank control.

Application: FCM,ICC/IF,IF,IHC-Fr,IHC-P,WB

Recommended WB=1:1000-2000,IHC-P=1:200-1000,IHC-F=1:200-1000,ICC/IF=1:100-200,IF=1:200-1000,Flow-Cyt=1:50-200

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### Properties

Stability & Storage: Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

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### Antigen Details

Immunogen: A synthesized peptide: human CDX2

Antigen Species: Human

Gene ID: 1045

Uniprot ID: Q99626

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### Research Background

This gene is a member of the caudal-related homeobox transcription factor gene family. The encoded protein is a major regulator of intestine-specific genes involved in cell growth and differentiation. This protein also plays a role in early embryonic development of the intestinal tract. Aberrant expression of this gene is associated with intestinal inflammation and tumorigenesis. [provided by RefSeq, Jan 2012]

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