

## Anti-CDX1 Antibody (5H993)

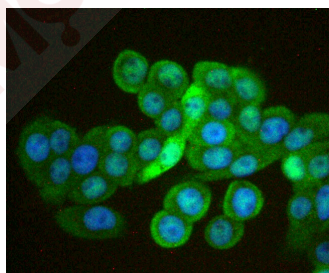
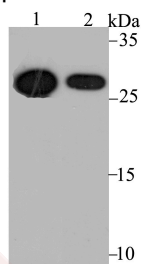
### Product Details

Ig Type:	IgG
Reactivity:	Human
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 28 kDa.
Clone:	5H993
Purification:	ProA affinity purified

### Applications

#### Verified Activity:

1. Western blot analysis of Cdx1 on human small intestine tissue (1) and CRC cell (2) lysate using anti-Cdx1 antibody at 1/1,000 dilution.
2. ICC staining Cdx1 in HOVO cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Application:	ICC,WB
Recommended	WB: 1:500-2000; ICC: 1:50-200

### Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

### Antigen Details

Immunogen: Recombinant Protein: full length sequence of human Cdx1  
Antigen Species: Human  
Uniprot ID: P47902  
Synonyms: Caudal-type homeobox protein 1;Homeobox protein CDX-1;CDX 1

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### Research Background

The members of the murine Cdx family (Cdx1, Cdx2, and Cdx4) are members of the caudal-type homeobox family of genes, which are homologues of the *Drosophila* 'caudal' gene required for anterior-posterior regional identity. The intestine-specific transcription factors Cdx1 and Cdx2 are candidate genes for directing intestinal development, differentiation, proliferation and maintenance of the intestinal phenotype. The relative expression of Cdx1 to Cdx2 protein may be important in the anterior to posterior patterning of the intestinal epithelium and in defining patterns of proliferation and differentiation along the crypt-villus axis. Expression of the Cdx1 homeobox gene in epithelial intestinal cells promotes cellular growth and differentiation. Cdx1 positively regulates its own expression. Cdx1 and Cdx2 are expressed in the small intestine and colon of fetus and adult. A decrease in human Cdx1 and/or Cdx2 expression is associated with colorectal tumorigenesis. Both Cdx1 and Cdx2 genes must be expressed to reduce tumorigenic potential, to increase sensitivity to apoptosis and to reduce cell migration, suggesting that the two genes control the normal phenotype by independent pathways. The human Cdx1 gene maps to chromosome 5q31-q33 and encodes a 265-amino acid protein.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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