

**Goat Anti-CDX2 Antibody**  
Peptide-affinity purified goat antibody  
Catalog # AF1224a

## Specification

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### Goat Anti-CDX2 Antibody - Product Information

|                   |  |
|-------------------|--|
| Application       | WB   |
| Primary Accession | <a href="#">O99626</a>   |
| Other Accession   | <a href="#">NP_001256</a> , <a href="#">1045</a> , <a href="#">12591 (mouse)</a> , <a href="#">66019 (rat)</a> |
| Reactivity        | Human  |
| Predicted         | Mouse, Rat, Dog  |
| Host              | Goat   |
| Clonality         | Polyclonal   |
| Concentration     | 100ug/200ul  |
| Isotype           | IgG  |
| Calculated MW     | 33520  |

### Goat Anti-CDX2 Antibody - Additional Information

**Gene ID** 1045

#### Other Names

Homeobox protein CDX-2, CDX-3, Caudal-type homeobox protein 2, CDX2, CDX3

#### Format

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

#### Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

#### Precautions

Goat Anti-CDX2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

### Goat Anti-CDX2 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:<a href="http://www.uniprot.org/citations/28473536" target="\_blank">28473536</a>).

#### Cellular Location

Nucleus {ECO:0000250|UniProtKB:P43241}.

#### Tissue Location

Detected in small intestine, colon and pancreas.

### Goat Anti-CDX2 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](#)

### Goat Anti-CDX2 Antibody - Images



AF1224a (1 µg/ml) staining of Human Kidney lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

### Goat Anti-CDX2 Antibody - Background

The level and beta-cell specificity of insulin gene expression are regulated by a set of nuclear proteins that bind to specific sequences within the promoter of the insulin gene (INS; MIM 176730) and interact with RNA polymerase to activate or repress transcription. The proteins LMX1 (MIM 600298) and CDX3 are homeodomain proteins that bind an A/T-rich sequence in the insulin promoter and stimulate its transcription (German et al., 1994 [PubMed 7698771]).

## Goat Anti-CDX2 Antibody - References

- Cdx2 regulates endo-lysosomal function and epithelial cell polarity. Gao N, et al. Genes Dev, 2010 Jun 15. PMID 20551175.
- Utility of thyroid transcription factor-1 and CDX-2 in determining the primary site of metastatic adenocarcinomas in serous effusions. Kim JH, et al. Acta Cytol, 2010 May-Jun. PMID 20518411.
- Fibroblast-derived HB-EGF promotes Cdx2 expression in esophageal squamous cells. Rahman FB, et al. Lab Invest, 2010 Jul. PMID 20351696.
- The role of Cdx2 in Barrett's metaplasia. Colleypriest BJ, et al. Biochem Soc Trans, 2010 Apr. PMID 20298184.
- Pathophysiology of intestinal metaplasia of the stomach: emphasis on CDX2 regulation. Barros R, et al. Biochem Soc Trans, 2010 Apr. PMID 20298183.