

#12306 Store at -20°C

## CDX2 (D11D10) Rabbit mAb



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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IP, IHC-P, IF-IC	H	Endogenous	38	Rabbit IgG	#Q99626	1045

### Product Usage Information

Application	Dilution
Western Blotting	1:1000
Immunoprecipitation	1:100
Immunohistochemistry (Paraffin)	1:1000 - 1:4000
Immunofluorescence (Immunocytochemistry)	1:50 - 1:200

### Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

For a carrier free (BSA and azide free) version of this product see product #23083.

### Specificity / Sensitivity

CDX2 (D11D10) Rabbit mAb recognizes endogenous levels of total CDX2 protein.

### Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human CDX2 protein.

### Background

CDX2, a homeobox domain-containing transcription factor, is a master regulator of the trophectoderm, the layer that gives rise to extra-embryonic tissues in mammalian development (1). CDX2 is also involved in intestinal development (2), and gain of expression or loss of expression has been associated with various human malignancies, such as Barrett's esophagus (3) and colorectal cancer (4,5). Mouse embryonic stem cells deficient in CDX2 display limited hematopoietic progenitor development and altered *Hox* gene expression (6), pointing to a role for CDX2 in *Hox* gene regulation. CDX2 is also implicated in the aberrant expression of *Hox* genes in human AML cell lines (7).

### Background References

1. Ralston, A. and Rossant, J. (2008) *Dev Biol* 313, 614-29.
2. Traber, P.G. and Silberg, D.G. (1996) *Annu Rev Physiol* 58, 275-97.
3. Shi, X.Y. et al. (2008) *Am J Clin Pathol* 129, 571-7.
4. Bakaris, S. et al. (2008) *Histol Histopathol* 23, 1043-7.
5. Guo, R.J. et al. (2004) *Cancer Biol Ther* 3, 593-601.
6. Wang, Y. et al. (2008) *Proc Natl Acad Sci U S A* 105, 7756-61.
7. Fröhling, S. et al. (2007) *Cell Cycle* 6, 2241-5.

### Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

### Western Blot Buffer

**IMPORTANT:** For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

### Applications Key

**WB:** Western Blotting **IP:** Immunoprecipitation **IHC-P:** Immunohistochemistry (Paraffin)  
**IF-IC:** Immunofluorescence (Immunocytochemistry)

### Cross-Reactivity Key

**H:** human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster  
**X:** Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse  
**GP:** Guinea Pig **Rab:** rabbit **All:** all species expected

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