

#3977 Store at -20C

CDX2 Antibody



Cell Signaling
TECHNOLOGY®

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 38	Source: Rabbit	UniProt ID: #Q99626	Entrez-Gene Id: 1045
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Product Usage Information

Application

Western Blotting
Immunoprecipitation

Dilution

1:1000
1:100

Storage

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

Specificity / Sensitivity

CDX2 Antibody detects endogenous levels of total CDX2 protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to amino acids at the N-terminus of human CDX2. Antibodies are purified by Protein A and peptide affinity chromatography.

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

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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