

CDX2 (D11D10) Rabbit mAb

✓ 100 µl
(10 western blots)

Orders ■ 877-616-CELL (2355)
orders@cellsignal.com

Support ■ 877-678-TECH (8324)
info@cellsignal.com

Web ■ www.cellsignal.com

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For Research Use Only. Not For Use In Diagnostic Procedures.

Entrez-Gene ID #1045

UniProt ID #Q99626

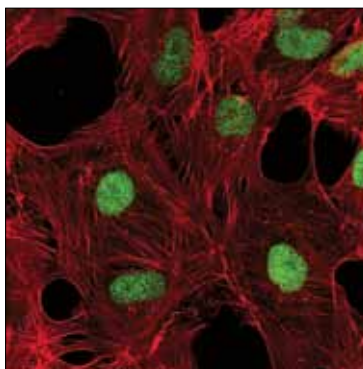
Applications	Species Cross-Reactivity*	Molecular Wt.	Isotype
W, IP, IHC-P, IF-IC Endogenous	H	38 kDa	Rabbit IgG**

Background: CDX2, a homeobox domain-containing transcription factor, is a master regulator of the trophoectoderm, 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 Barret 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).

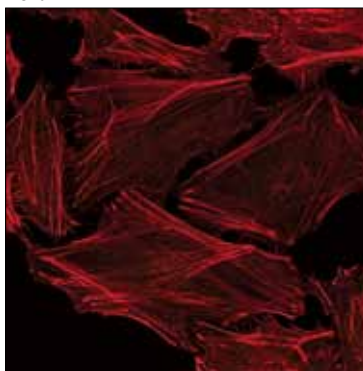
Specificity/Sensitivity: CDX2 (D11D10) Rabbit mAb recognizes endogenous levels of total CDX2 protein.

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

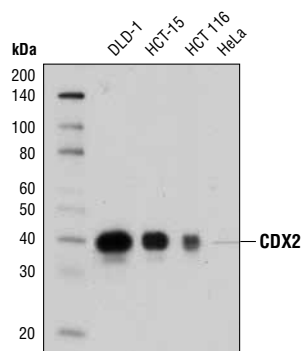
DLD-1



HeLa



Confocal immunofluorescent analysis of DLD-1 (positive, upper) and HeLa (negative, lower) cells using CDX2 (D11D10) Rabbit mAb (green). Actin filaments were labeled with DyLight™ 554 Phalloidin #13054 (red).



Western blot analysis of extracts from various cell lines using CDX2 (D11D10) Rabbit mAb. HeLa extracts show negative or extremely low expression as expected.

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

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.

***Species cross-reactivity is determined by western blot.**

****Anti-rabbit secondary antibodies must be used to detect this antibody.**

Recommended Antibody Dilutions:

Western blotting	1:1000
Immunoprecipitation	1:100
Immunohistochemistry (Paraffin)	1:2000†

Unmasking buffer: Citrate
Antibody diluent: SignalStain® Antibody Diluent #8112

Detection reagent: SignalStain® Boost (HRP, Rabbit) #8114

†Optimal IHC dilutions determined using SignalStain® Boost IHC Detection Reagent.

Immunofluorescence (IF-IC)	1:50
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For product specific protocols please see the web page for this product at www.cellsignal.com.

Please visit www.cellsignal.com for a complete listing of recommended companion products.

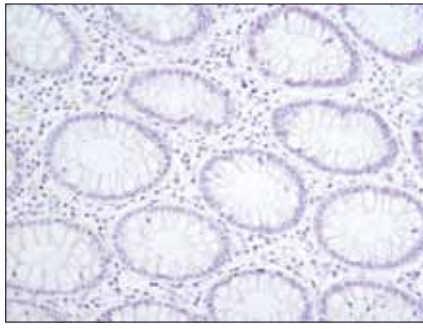
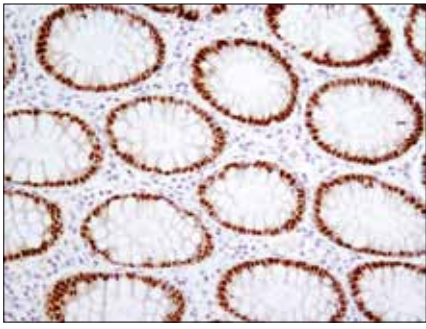
Background References:

- (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 USA* 105, 7756-61.
- (7) Fröhling, S. et al. (2007) *Cell Cycle* 6, 2241-5.

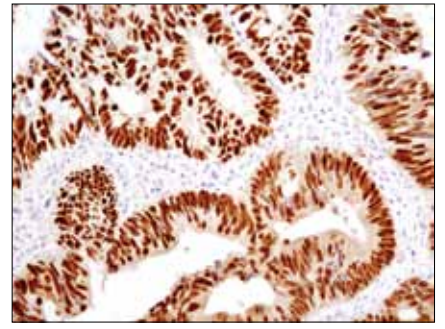
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IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide

Applications Key: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence
Species Cross-Reactivity Key: H—human M—mouse R—rat Hm—hamster Mk—monkey 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 All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.



Immunohistochemical analysis of paraffin-embedded human colon using CDX2 (D11D10) Rabbit mAb in the presence of control peptide (left) or antigen-specific peptide (right).



Immunohistochemical analysis of paraffin-embedded human colon carcinoma using CDX2 (D11D10) Rabbit mAb.