

#3977 Store at -20°C

Cdx2 Antibody

✓ 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

rev. 09/14/11

This product is intended for research purposes only. This product is not intended to be used for therapeutic or diagnostic purposes in humans or animals.

Applications	Species Cross-Reactivity*	Molecular Wt.	Source
W, IP Endogenous	H	38 kDa	Rabbit**

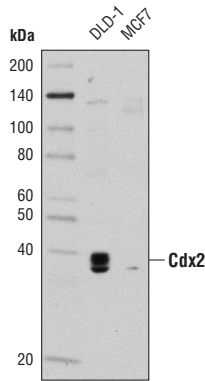
Background: Cdx2, a homeobox domain-containing transcription factor, is a master regulator of the trophoectoderm, the layer that gives rise to extra-embryonic tissues in mammalian development (1). Cdx2 is also involved in intestinal development (2), and gain of expression or loss of expression has been 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 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 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.



Western blot analysis of extracts from DLD-1 and MCF7 (Cdx2-null) cells using Cdx2 Antibody.

Entrez-Gene ID #1045
Swiss-Prot Acc. #Q99626

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.

*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

For application 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.

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.

© 2011 Cell Signaling Technology, Inc. Cell Signaling Technology® is a trademark of Cell Signaling Technology, Inc.

Applications Key: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide
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.