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#97885

ZEB2 (E6U7Z) Rabbit mAb

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Entrez-Gene ID #9839
UniProt ID #O60315

New 08/19

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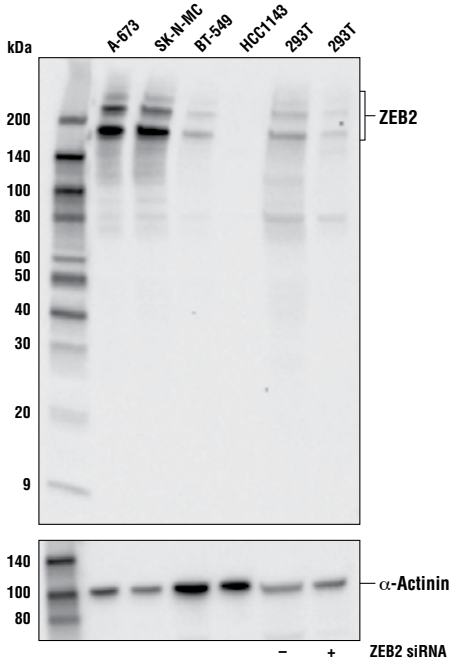
Applications	Species Cross-Reactivity*	Molecular Wt.	Isotype
W Endogenous	H	180, 210 kDa	Rabbit IgG**

Background: ZEB family proteins are zinc finger and homeobox domain containing transcription factors. There are two members in mammals, ZEB1 (δ-EF1, TCF8, AREB6) and ZEB2 (SIP1). Zeb1 and Zeb2 contain two separate Zinc-finger domain and a homeodomain (1). While ZEB proteins mainly function as transcriptional suppressors, they are able to activate transcription, dependent on DNA-context and cell type (1). One of the targets suppressed by ZEB proteins is E-cadherin. Downregulation of E-cadherin is one of the hallmarks of epithelial mesenchymal transition (EMT), a critical feature of normal embryonic development, which is also utilized by malignant epithelial tumors to spread beyond their origin (2-4). ZEB1 mutations are associated with posterior corneal dystrophy, and ZEB2 mutations were reported to be associated with Hirschsprung (HSCR) disease (5-8).

Specificity/Sensitivity: ZEB2 (E6U7Z) Rabbit mAb recognizes endogenous levels of total ZEB2 protein.

Source/Purification: Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro722 of human ZEB2 protein.



Western blot analysis of extracts from various cell lines using ZEB2 (E6U7Z) Rabbit mAb or α-Actinin (D6F6) XP® Rabbit mAb #6487. As expected, BT-549 and HCC1143 cells are low or negative for ZEB2 expression and ZEB2 siRNA-treated 293T cells show decreased expression.

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

For product specific protocols and a complete listing of recommended companion products please see the product web page at www.cellsignal.com.

Background References:

(1) Vandewalle, C. et al. (2009) *Cell Mol Life Sci* 66, 773-87.
(2) Aigner, K. et al. (2007) *Oncogene* 26, 6979-88.
(3) Peinado, H. et al. (2007) *Nat Rev Cancer* 7, 415-28.
(4) Moreno-Bueno, G. et al. (2008) *Oncogene* 27, 6958-69.
(5) Krafchak, C.M. et al. (2005) *Am J Hum Genet* 77, 694-708.
(6) Aldave, A.J. et al. (2007) *Am J Med Genet A* 143A, 2549-56.
(7) Dastot-Le Moal, F. et al. (2007) *Hum Mutat* 28, 313-21.
(8) Garavelli, L. and Mainardi, P.C. (2007) *Orphanet J Rare Dis* 2, 42.

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.

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