Revision 1

#3396 Store at -20C

ZEB1 (D80D3) Rabbit mAb

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IP	H	Endogenous	200	Rabbit IgG	#P37275	6935

Product Usage Information

Application	Dilution
Western Blotting	1:1000
Immunoprecipitation	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.

Specificity / Sensitivity

TCF8/ZEB1 (D80D3) Rabbit mAb detects endogenous levels of total TCF8/ZEB1 protein.

Species predicted to react based on 100% sequence homology:

Mouse, Rat

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to a region around residue Asp868 of human TCF8/ZEB1.

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 domains 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).

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.

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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