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Sox10 (D5V9L) Rabbit mAb**Cell Signaling**
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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IP, IF-IC	H	Endogenous	62	Rabbit IgG	#P56693	6663

Product Usage Information**Application**

Western Blotting
Immunoprecipitation
Immunofluorescence (Immunocytochemistry)

Dilution

1:1000
1:100
1:1600

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

Sox10 (D5V9L) Rabbit mAb recognizes endogenous levels of total Sox10 protein. This antibody also recognizes presumptive sumoylated forms of Sox10 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu249 of human Sox10 protein.

Background

SRY-box 10 (Sox10) is a member of the SOX (SRY-related HMG-box) family of transcription factors involved in the regulation of embryonic development and the determination of cell fate. Sox10 is an important regulator of neural crest and peripheral nervous system development (1-3). Mutations in the SOX10 gene are associated with a group of auditory-pigmentary developmental disorders, including Waardenburg and Waardenburg-Shah syndromes (3,4). Research studies suggest an oncogenic role for Sox10 in various tumor types, such as hepatocellular carcinoma and melanoma (5,6).

Background References

1. Hong, C.S. and Saint-Jeannet, J.P. (2005) *Semin Cell Dev Biol* 16, 694-703.
2. Britsch, S. et al. (2001) *Genes Dev* 15, 66-78.
3. Bondurand, N. and Sham, M.H. (2013) *Dev Biol* 382, 330-43.
4. Mollaaghababa, R. and Pavan, W.J. (2003) *Oncogene* 22, 3024-34.
5. Zhou, D. et al. (2014) *Tumour Biol* 35, 9935-40.
6. Graf, S.A. et al. (2014) *J Invest Dermatol* 134, 2212-20.

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 **IF-IC:** Immunofluorescence (Immunocytochemistry)

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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