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10-8013: Monoclonal Antibody to SOX10 (Clone: ABM42D7)

Monoclonal Clonality: ABM42D7 Clone Name: Application: IHC.WB Reactivity: Human Gene: SOX10 Gene ID: 6663 **Uniprot ID:** P56693 Format: Purified SOX10 **Alternative Name:**

Isotype: Mouse IgG1 Kappa

Immunogen Information: A partial length recombinant SOX-10 protein (amino acids 115-269) was used as the immunogen

for this antibody.

Description

SOX10 is a transcription factor that belongs to the high mobility group (HMG) box super family of DNA-binding proteins. It is located at 22q13.1 and is highly conserved in vertebrates. SOX10 is expressed in many different cell types and tissues and implicated in neural crest development, nervous system neurogenesis, as well as differentiation of oligodendrocyte, glia and melanocytes. It modulates other transcription factors including PAX3 forming a complex and acts as a nucleocytoplasmic shuttle protein in neural crest and oligodendrocyte development. The level of expression of SOX10 plays pivotal regulatory role both in tumor progression and suppression. Its elevated expression, possess tumor-promoting activities in several malignancies including melanoma and gliomas. Decreased expression of SOX10 promotes tumor cell growth and focal adhesions of Merlinnull schwannoma cells. SOX10 may also function as a tumor suppressor by inducing tumor cell apoptosis, inhibiting invasion, regulating cell EMT and stemness through suppressing Wnt/Beta-catenin signaling. Mutations of the Sox10 gene are known to cause various combinations of hearing loss and pigmentation defects in humans such as Waardenburg syndrome, a rare auditory-pigmentary disorder that generates varying combinations of hearing loss and pigmentation defects.

Product Info

Amount : $25 \mu g / 100 \mu g$

Purification: Protein G Chromatography

Content: 25 μg in 50 μl/100 μg in 200 μl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium

azide is highly toxic.

Storage condition:

Storage condition:

Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid

repeated freeze and thaw cycles.

Application Note

Western blot analysis: 1-2 µg/ml, Immunohistochemical analysis: 1 µg/ml



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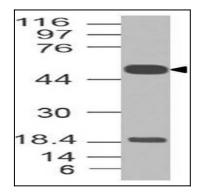


Figure-1: Western blot analysis of SOX10. Anti- SOX10 antibody (Clone: ABM42D7) was tested at 1 μ g/ml on h Kidney lysate.

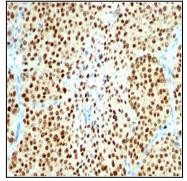


Figure-2 : Immunohistochemical analysis of SOX10 in human melanoma tissue using SOX10 antibody (Clone: ABM42D7) at 1 μ g/ml.