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DATA SHEET

Mouse Anti-SOX4 [SOX4/2540]: MC0427, MC0427RTU7

Intended Use: For Research Use Only

Description: Sox genes comprise a family of genes that are related to the mammalian sex determining gene SRY. These genes similarly contain sequences that encode for the HMG-box domain, which is responsible for the sequence-specific DNA-binding activity. Sox genes encode putative transcriptional regulators implicated in the decision of cell fates during development and the control of diverse developmental processes. The highly complex group of Sox genes cluster at least 40 different loci that rapidly diverged in various animal lineages. At present, 30 Sox genes have been identified. Members of this family have been shown to be conserved during evolution and to play key roles during animal development. Some are involved in human diseases, including sex reversal.

Specifications

Clone:	SOX4/2540
Source:	Mouse
Isotype:	IgG1b/k
Reactivity:	Human
Immunogen:	Recombinant full-length human SOX4 protein
Localization:	Nucleus
Formulation:	Protein A/G purified antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN3)
Storage:	Store at 2°- 8°C
Applications:	IHC

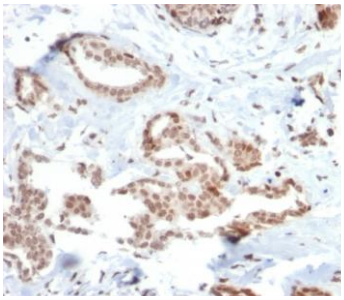
Package:

Description	Catalog No.	Size
SOX4 Concentrated	MC0427	1 ml
SOX4 Prediluted	MC0427RTU7	7 ml

IHC Procedure*

Positive Control Tissue:	Breast or colon Carcinoma
Concentrated Dilution:	50-200
Pretreatment:	Tris EDTA pH9.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
Incubation Time and Temp:	30-60 minutes @ RT
Detection:	Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human breast carcinoma stained with anti-SOX4 using DAB

References:

1. An Apoptotic Gene Signature for the Prognosis of Hepatocellular Carcinoma. Chen K, et al. Onco Targets Ther 14:1589-1604, 2021. PubMed: 33688206
2. NORAD accelerates chemo-resistance of non-small-cell lung cancer via targeting at miR-129-1-3p/SOX4 axis. Huang Q, et al. Biosci Rep 40:N/A (2020).PubMed: 31894841
3. Single-cell analysis supports a luminal-neuroendocrine transdifferentiation in human prostate cancer. Dong B, et al. Commun Biol 3:778, 2020. PubMed: 33328604

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