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36-3167: Anti-SOX2 (Embryonic Stem Cell Marker) Monoclonal Antibody(Clone: SOX2/1792)

Clonality :	Monoclonal
Clone Name :	SOX2/1792
Application :	ELISA,IHC,WB
Reactivity :	Human
Gene :	SOX2
Gene ID :	6657
Uniprot ID :	P48431
Alternative Name :	ANOP3; Delta EF2a; MCOPS3 (Microphthalmia Syndromic type 3); SOX-2; SRY (sex determining region Y) box 2; SRY related HMG box 2; Transcription factor SOX-2; ysb
Isotype :	Mouse IgG2b, kappa
Immunogen Information :	Recombinant fragment (within aa176-305) of human SOX2 protein (exact sequence is proprietary)

Description

SOX2 is required for stem cell maintenance in the central nervous system, and it also regulates gene expression in the stomach. SOX2 is necessary for regulating multiple transcription factors that affect Oct 3/4 expression. An essential function of SOX2 is to stabilize embryonic stem cells in a pluripotent state by maintaining the requisite level of Oct 3/4 expression. Reportedly, SOX2 is associated with aggressive phenotypes of breast, head and neck, gastric, colorectal, bladder, and small cell lung cancers. However, SOX2 is expressed in a high percentage of lung squamous cell carcinomas and has been shown to be an independent favorable prognostic marker.

Product Info

Amount :	20 µg / 100 µg
Content :	200 µg/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Storage condition :	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous.

Application Note

ELISA (Use Ab at 2-4ug/ml for coating) (Order Ab without BSA); Western Blot (1-2ug/ml); ,Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 min at RT),(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes);

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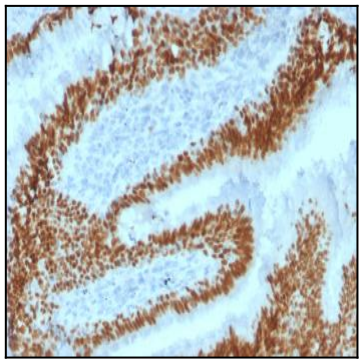

Fig. 1: Formalin-fixed, paraffin-embedded human Lung Carcinoma stained with SOX2 Mouse Monoclonal Antibody (SOX2/1792).

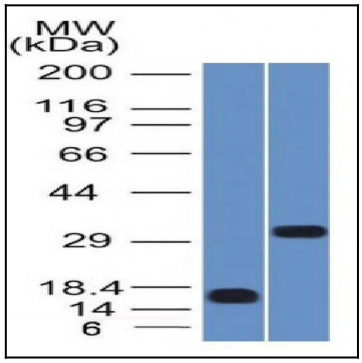

Fig. 2: Western Blot of Recombinant SOX2 protein fragment and NCCIT cell lysate using SOX2 Mouse Monoclonal Antibody (SOX2/1792).

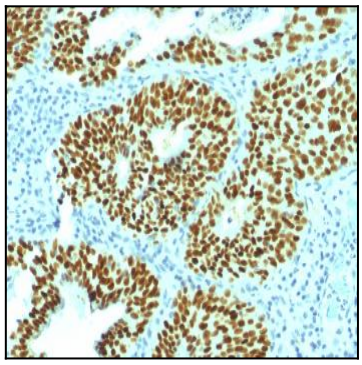

Fig. 3: Formalin-fixed, paraffin-embedded human Cervical Carcinoma stained with SOX2 Mouse Monoclonal Antibody (SOX2/1792).

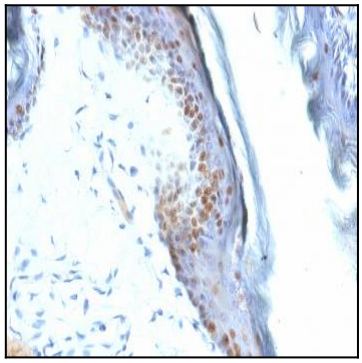

Fig. 4: Formalin-fixed, paraffin-embedded Mouse Stomach stained with SOX2 Mouse Monoclonal Antibody (SOX2/1792).

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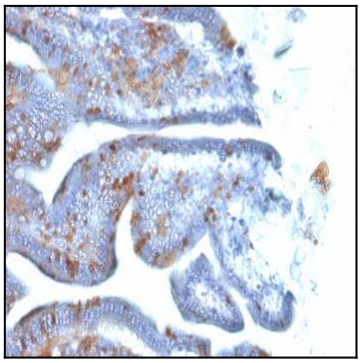

Fig. 5: Formalin-fixed, paraffin-embedded Mouse Intestine stained with SOX2 Mouse Monoclonal Antibody (SOX2/1792).

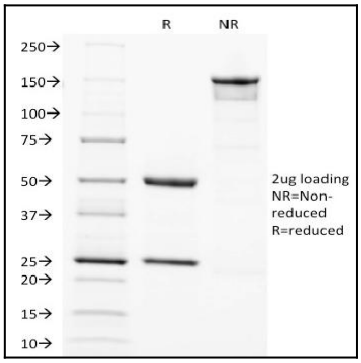

Fig. 6: SDS-PAGE Analysis Purified SOX2 Mouse Monoclonal Antibody (SOX2/1792). Confirmation of Integrity and Purity of Antibody.

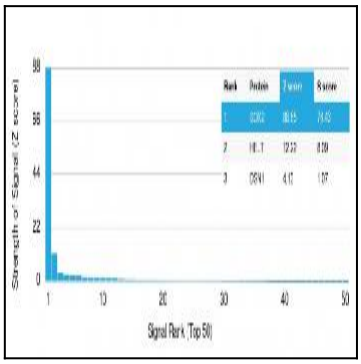

Fig. 7: Analysis of Protein Array containing more than 19,000 full-length human proteins using SOX2 Mouse Monoclonal Antibody (SOX2/1792) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.