



Datasheet for ABIN6940611
anti-SOX2 antibody (AA 176-305)



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9 Images

Overview

Quantity:	100 µg
Target:	SOX2
Binding Specificity:	AA 176-305
Reactivity:	Human, Mouse
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This SOX2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Coating (Coat), Staining Methods (StM)

Product Details

Immunogen:	Recombinant fragment (within aa176-305) of human SOX2 protein (exact sequence is proprietary)
Clone:	SOX2-1791
Isotype:	IgG2b kappa
Purification:	Purified by Protein A/G

Target Details

Target:	SOX2
Alternative Name:	SOX2 (SOX2 Products)

Target Details

Background: 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.

Molecular Weight: 34kDa

Gene ID: 6657

UniProt: [P48431](#)

Pathways: [Dopaminergic Neurogenesis](#), [Sensory Perception of Sound](#), [Stem Cell Maintenance](#), [Cell RedoxHomeostasis](#)

Application Details

Application Notes: Positive Control: A549, NCCIT cells. Lung or Cervicalcarcinoma.
Known Application: ELISA (Use Ab at 2-4 µg/mL for coating) (Order Ab without BSA), Western Blot (1-2 µg/mL), Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 min at RT),(Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM Citrate Buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes),Optimal dilution for a specific application should be determined.

Restrictions: For Research Use only

Handling

Concentration: 200 µg/mL

Buffer: 10 mM PBS with 0.05 % BSA & 0.05 % azide.

Preservative: Sodium azide

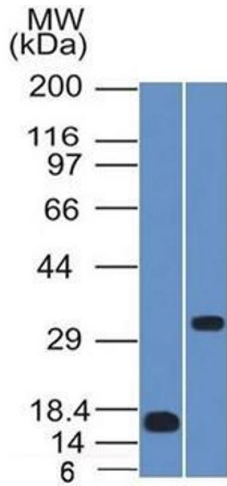
Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C,-80 °C

Storage Comment: Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody

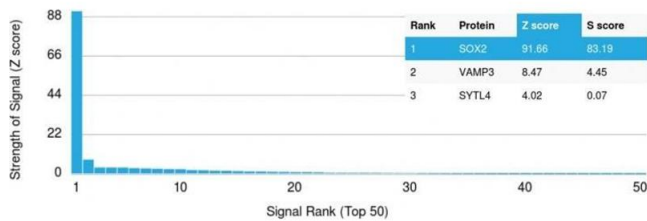
is stable for 24 months. Non-hazardous. No MSDS required.

Expiry Date: 24 months



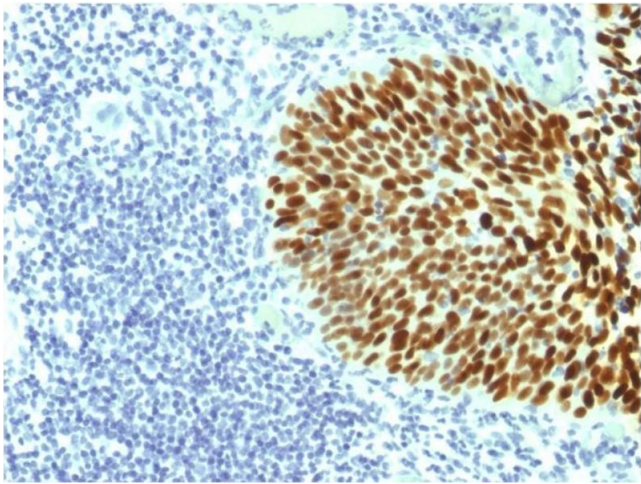
Western Blotting

Image 1. Western Blot of Recombinant SOX2 protein fragment and NCCIT cell lysate using SOX2 Mouse Monoclonal Antibody (SOX2/1791).



Protein Array

Image 2. Analysis of Protein Array containing more than 19,000 full-length human proteins using SOX2 Mouse Monoclonal Antibody (SOX2/1791) 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 HuProt™ array. Z-scores are described in units of standard deviations (SDs) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SDs) 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.



Immunohistochemistry

Image 3. Formalin-fixed, paraffin-embedded human Cervical Carcinoma stained with SOX2 Mouse Monoclonal Antibody (SOX2/1791).

Please check the [product details page](#) for more images. Overall 9 images are available for ABIN6940611.