Recombinant SOX2 (Embryonic Stem Cell Marker) Antibody

Rabbit Monoclonal Antibody [Clone SOX2/4267R]

Catalog No	Format	Size
6657-RBM7-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
6657-RBM7-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
6657-RBM7-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

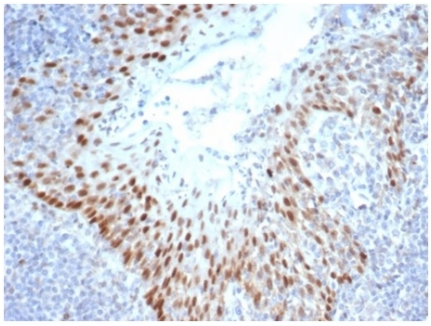
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

Product Details

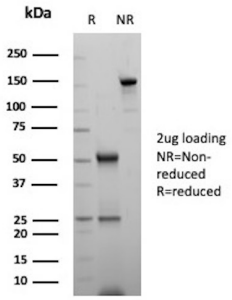
Clone	SOX2/4267R
Gene Name	SOX2
Immunogen	Recombinant fragment of human SOX2 protein (exact sequence is proprietary)
Host	Rabbit
Clonality	Monoclonal
Isotype / Light Chain	IgG / Kappa
Mol. Weight of Antigen	34kDa
Cellular Localization	Cytoplasm, Nucleus, Nucleus speckle
Species Reactivity	Human
Positive Control	MCF-7 cells. Human lung or cervical carcinoma.

**Optimal dilution for a specific application should be determined.*

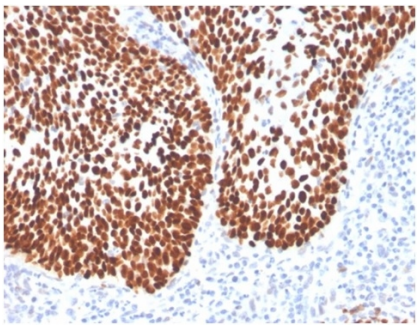
Product Images for Recombinant SOX2 (Embryonic Stem Cell Marker) Antibody



IHC analysis of formalin-fixed, paraffin-embedded human tonsil. Strong nuclear staining using SOX2/4267R at 2ug/ml in PBS for 30min RT. HIER: Tris/EDTA, pH9.0, 45min. 2°C: HRP-polymer, 30min. DAB, 5min.



SDS-PAGE Analysis of Purified Transcription factor SOX-2 RecombinantRabbit Monoclonal Antibody (SOX2/4267R). Confirmation of Purity and Integrity of Antibody.



IHC analysis of formalin-fixed, paraffin-embedded human cervix. Strong nuclear staining using SOX2/4267R at 2ug/ml in PBS for 30min RT. HIER: Tris/EDTA, pH9.0, 45min. 2°C: HRP-polymer, 30min. DAB, 5min.

Specificity & Comments

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.

Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

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.

Research Areas

Cytokine Signaling, Developmental Biology, Immunology, Neural Stem Cells, Signal Transduction, Stem Cell Differentiation, Transcription Factors

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.