9853 Pacific Heights Blvd.
Suite D. San Diego,
CA 92121, USA
Tel: 858-263-4982
Email: info@abeomics.com

10-8015: Monoclonal Antibody to SOX2 (Clone: ABM46A5)

Clonality :	Monoclonal
Clone Name :	ABM46A5
Application :	WB
Reactivity :	Mouse
Gene :	SOX2
Gene ID :	6657
Uniprot ID :	P48431
Format :	Purified
Alternative Name :	SOX2
Isotype :	Mouse IgG2b Kappa
Immunogen Information :	A full length recombinant Sox2 protein was used as the immunogen for this antibody.

Description

SOX2 is a member of the SRY-related HMG-box (SOX) transcription factor family with a set of well-established and diverse roles in stem cell potency and maintenance, embryonic development and cancer. It regulates extensive and often divergent transcriptional networks across different cell types. SOX2 is best known as a core pluripotency factor, maintaining the undifferentiated phenotype of pluripotent stem cells, and is closely co-regulated alongside core pluripotency factors OCT4 and NANOG in undifferentiated ESCs (Embryonic Stem Cells), ECCs (Embryonal Carcinoma Cells) and iPSCs (Induced Pluripotent Stem Cells). Loss of SOX2 expression in these cell lines triggers their differentiation. More recently, SOX2 has been identified as a crucial player in the maintenance and differentiation of adult stem cells such as in neural stem cells. Moreover, high expression levels of SOX2 correlate with tumor progression or poor prognosis of multiple cancers. In contrast, the tumor-suppressive role of SOX2 has been reported in gastric cancer and squamous cell lung cancer.

Product Info

Amount :	25 µg / 100 µg
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 :	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: 2-4 µg/ml

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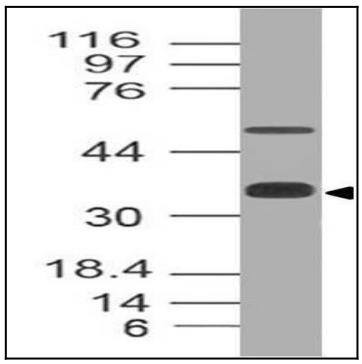

Fig-1: Western blot analysis of SOX2. Anti-SOX2 antibody (Clone: ABM46A5) was tested at 2 µg/ml on mouse Embryo brain lysate.