Product datasheet

Anti-FOX2/RBM9/RBFOX2 Antibody

Catalog Number: ***A05389-2***

BOSTER®
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator,
East Lake High-Tech Development Zone, Wuhan.
Web: www.boster.com ***Phone:*** 027-67845390/1/2 ***Email:*** boster@boster.com

Basic Information

Product Name	Anti-FOX2/RBM9/RBFOX2 Antibody
Gene Name	RBFOX2
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC, IF, FCM, ELISA
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	E.coli-derived human FOX2/RBM9/RBFOX2 recombinant protein (Position: M1-Y256).
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	41,60 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 Immunofluorescence (IF): 1:50-400 Flow Cytometry (Fixed): 1:50-200 Enzyme linked immunosorbent assay (ELISA): 1:100-1000 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt，-20℃ as supplied.

Background Information

RNA binding motif protein 9 (RBM9), also known as Rbfox2, is a protein which in humans is encoded by the RBM9 gene. It is mapped to 22q12.3. This gene is one of several human genes similar to the C. elegans gene Fox-1. This gene encodes an RNA binding protein that is thought to be a key regulator of alternative exon splicing in the nervous system and other cell types. The protein binds to a conserved UGCAUG element found downstream of many alternatively spliced exons and promotes inclusion of the alternative exon in mature transcripts. The protein also interacts with the estrogen receptor 1 transcription factor and regulates estrogen receptor 1 transcriptional activity. Multiple transcript variants encoding different isoforms have been found for this gene.

Selected Validation Data

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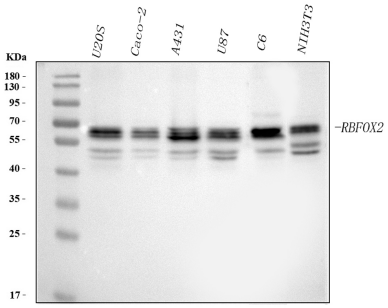
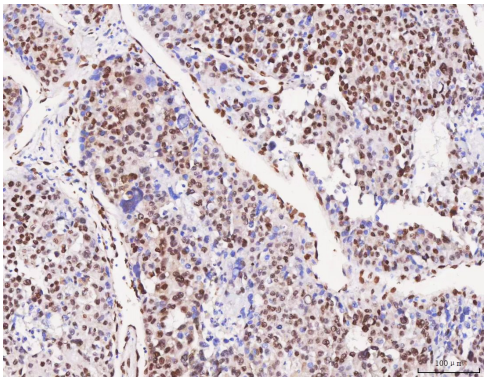
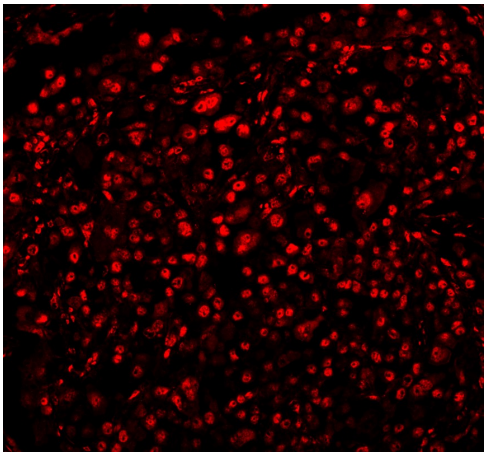


Western blot analysis of anti-FOX2/RBM9/RBFOX2 antibody (A05389-2). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human U2OS whole cell lysates,
Lane 2: human Caco-2 whole cell lysates,
Lane 3: human A431 whole cell lysates,
Lane 4: human U87 whole cell lysates,
Lane 5: rat C6 whole cell lysates,
Lane 6: mouse NIH/3T3 whole cell lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-FOX2/RBM9/RBFOX2 antigen affinity purified polyclonal antibody (A05389-2) and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for FOX2/RBM9/RBFOX2 at approximately 60 kDa. The expected band size for FOX2/RBM9/RBFOX2 is at 41 kDa.



IHC analysis of FOX2/RBM9/RBFOX2 using anti-FOX2/RBM9/RBFOX2 antibody (A05389-2).
FOX2/RBM9/RBFOX2 was detected in a paraffin-embedded section of human liver cancer tissue. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1027) as the chromogen.



IF analysis of FOX2/RBM9/RBFOX2 using anti-FOX2/RBM9/RBFOX2 antibody (A05389-2).
FOX2/RBM9/RBFOX2 was detected in a paraffin-embedded section of human lung cancer tissue. The tissue section was incubated with rabbit anti-FOX2/RBM9/RBFOX2 Antibody (A05389-2) at a dilution of 1:100. Cy3-conjugated Anti-rabbit IgG Secondary Antibody (red)(Catalog#BA1032) was used as secondary antibody.

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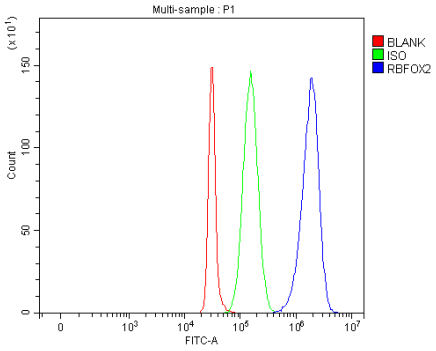

Flow Cytometry analysis of SH-SY5Y cells using anti-FOX2/RBM9/RBFOX2 antibody (A05389-2).
Overlay histogram showing SH-SY5Y cells stained with A05389-2 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-FOX2/RBM9/RBFOX2 Antibody (A05389-2) at 1:100 dilution for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG at 1:100 dilution used under the same conditions. Unlabelled sample (Red line) was also used as a control.