

Rabbit FOX2/RBM9/RBFOX2 Polyclonal Antibody | anti-FOX2/RBM9/RBFOX2 antibody

Anti-FOX2/RBM9/RBFOX2 Antibody Picoband

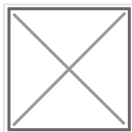
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19843	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

FOX2/RBM9/RBFOX2; Polyclonal Antibody; Anti-FOX2/RBM9/RBFOX2 Antibody Picoband; Zinc finger protein Helios; RNA binding fox-1 homolog 2; RNA binding protein fox-1 homolog 2; Fox-1 homolog B; Hexaribonucleotide-binding protein 2; RNA-binding motif protein 9; RNA-binding protein 9; Repressor of tamoxifen transcriptional activity; RBFOX2; FOX2; HRNP2; RBM9; RTA; anti-FOX2/RBM9/RBFOX2 antibody

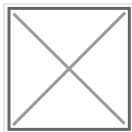
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Expressed in fetal brain.Highly expressed in brain and placenta. Lower levels in heart, liver, thymus, kidney and lung. Located to endothelial cells and neuronal cells of the suprachiasmatic nucleus (SCN). Also detected in endothelial cells of the heart, lung and kidney. In the brain, specificallyExpressed in the thalamus, hippocampus and amygdala.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Applicable Applications for anti-FOX2/RBM9/RBFOX2 antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Application Notes	WB: 0.25-0.5ug/ml, Human, Mouse, Rat IHC(Paraffin-embedded Section): 2-5ug/ml, Human, Mouse IF: 5ug/ml, Human FC/FACS:(Fixed), 1-3ug/1x10 ⁶ cells, Human ELISA: 0.1-0.5ug/ml
Immunogen	E coli-derived human FOX2/RBM9/RBFOX2 recombinant protein (Position: M1-Y256).
Subcellular Localization	Nucleus, Cytoplasm
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins.
Protein Function	RNA-binding protein that regulates alternative splicing events by binding to 5'-UGCAUGU-3' elements. Prevents binding of U2AF2 to the 3'-splice site. Regulates alternative splicing of tissue-specific exons and of differentially spliced exons during erythropoiesis (By similarity). RNA-binding protein that seems to act as a coregulatory factor of ER-alpha.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.



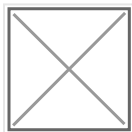
IHC (Immunohistochemistry)

Figure 7. IHC analysis of FOX2/RBM9/RBFOX2 using anti-FOX2/RBM9/RBFOX2 antibody (AAA19843).FOX2/RBM9/RBFOX2 was detected in a paraffin-embedded section of mouse kidney tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-FOX2/RBM9/RBFOX2 Antibody (AAA19843) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-FOX2/RBM9/RBFOX2 Antibody (AAA19843) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (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 (AAA19843, 1ug/1x106 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IHC (Immunohistochemistry)

Figure 4. IHC analysis of FOX2/RBM9/RBFOX2 using anti-FOX2/RBM9/RBFOX2 antibody (AAA19843).FOX2/RBM9/RBFOX2 was detected in a paraffin-embedded section of human lung cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-FOX2/RBM9/RBFOX2 Antibody (AAA19843) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-FOX2/RBM9/RBFOX2 Antibody (AAA19843) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-FOX2/RBM9/RBFOX2 Antibody (AAA19843) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Lane 2: human Caco-2 whole cell lysates,Lane 3: human A431 whole cell lysates,Lane 4: human U-87MG 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 nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-FOX2/RBM9/RBFOX2 antigen affinity purified polyclonal antibody (#AAA19843) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. 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 (Immunohistochemistry)

Figure 5. IHC analysis of FOX2/RBM9/RBFOX2 using anti-FOX2/RBM9/RBFOX2 antibody (AAA19843).FOX2/RBM9/RBFOX2 was detected in a paraffin-embedded section of human cortical adenoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-FOX2/RBM9/RBFOX2 Antibody (AAA19843) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 5ug/mL rabbit anti-FOX2/RBM9/RBFOX2 Antibody (AAA19843) overnight at 4 degree C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

ADDITIONAL INFORMATION

Related Product Information for anti-FOX2/RBM9/RBFOX2 antibody

The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.

Product Categories/Family for anti-FOX2/RBM9/RBFOX2 antibody	Primary Antibodies; Cardiogenesis; Cardiovascular; Domain Families; Epigenetics and Nuclear Signaling; Hlh/Leucine Zipper; Neurology Process; Neuroscience; Receptors; Transcription; Transcription Factors; Transcription Factors/Regulators
References	1. Lim, J., Hao, T., Shaw, C., Patel, A. J., Szabo, G., Rual, J.-F., Fisk, C. J., Li, N., Smolyar, A., Hill, D. E., Barabasi, A.-L., Vidal, M., Zoghbi, H. Y. A protein-protein interaction network for human inherited ataxias and disorders of Purkinje cell degeneration. Cell 125: 801-814, 2006.2. Norris, J. D., Fan, D., Sherk, A., McDonnell, D. P. A negative coregulator for the human ER. Molec. Endocr. 16: 459-468, 2002.

NCBI AND UNIPROT INFORMATION

NCBI GI #	47678649
UniProt Accession #	O43251; Q0PRL5; Q0VH35; Q5TF71; Q6IC09; Q8TD00; Q8WYB1; Q96DZ6; A4F5G8; A8K5Z5; B0QYY8; B0QYY9
Molecular Weight	41,374 Da
NCBI Official Full Name	RBM9
UniProt Protein Name	RNA binding protein fox-1 homolog 2
UniProt Gene Name	RBFOX2
UniProt Synonym Gene Names	FOX2; HRNBP2; RBM9; RTA
UniProt Entry Name	RFOX2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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