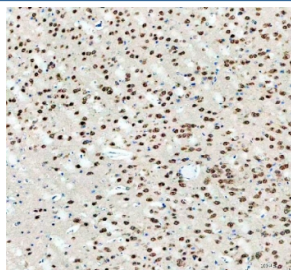


## Fox2 Antibody / RBM9 (RQ5548)

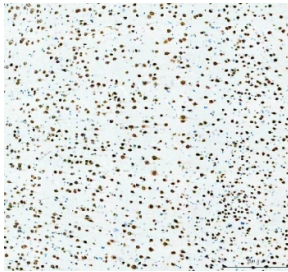
Catalog No.	Formulation	Size
RQ5548	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

**Bulk quote request**

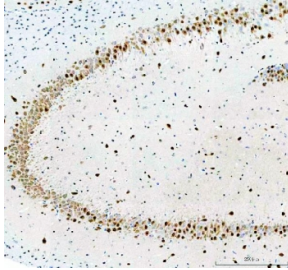
<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human, Mouse, Rat
<b>Format</b>	Antigen affinity purified
<b>Clonality</b>	Polyclonal (rabbit origin)
<b>Isotype</b>	Rabbit IgG
<b>Purity</b>	Affinity purified
<b>Buffer</b>	Lyophilized from 1X PBS with 2% Trehalose
<b>UniProt</b>	O43251
<b>Localization</b>	Nuclear
<b>Applications</b>	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml Immunofluorescence : 5ug/ml Direct ELISA : 0.1-0.5ug/ml
<b>Limitations</b>	This Fox2 antibody is available for research use only.



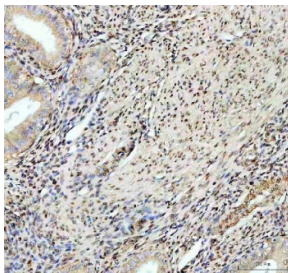
IHC staining of FFPE mouse brain tissue with Fox2 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



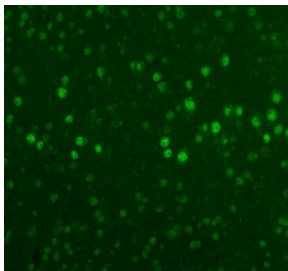
IHC staining of FFPE rat brain cortex tissue with Fox2 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



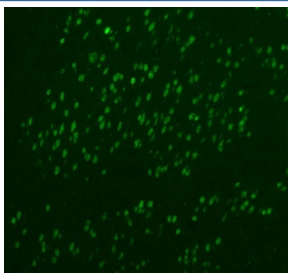
IHC staining of FFPE rat hippocampus tissue with Fox2 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



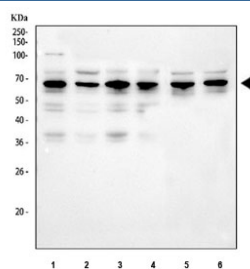
IHC staining of FFPE endometrial cancer tissue with Fox2 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



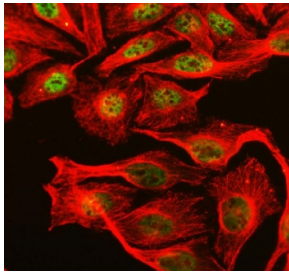
Immunofluorescent staining of FFPE mouse brain tissue with Fox2 antibody (green). HIER: steam section in pH8 EDTA buffer for 20 min.



Immunofluorescent staining of FFPE rat brain tissue with Fox2 antibody (green). HIER: steam section in pH8 EDTA buffer for 20 min.



Western blot testing of 1) human U-2 OS, 2) human Caco-2, 3) human A431, 4) human U-87 MG, 5) rat C6 and 6) mouse NIH 3T3 cell lysate with Fox2 antibody. Expected molecular weight ~41 kDa.



Immunofluorescent staining of FFPE human U-2 OS cells with Fox2 antibody (green) and Alpha Tubulin mAb (red). HIER: steam section in pH6 citrate buffer for 20 min.

## Description

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.

## Application Notes

Optimal dilution of the Fox2 antibody should be determined by the researcher.

## Immunogen

A human recombinant protein (amino acids M1-Q81) was used as the immunogen for the Fox2 antibody.

## Storage

After reconstitution, the Fox2 antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.