

For Research Use Only

# FOX2/RBM9 Polyclonal antibody

Catalog Number: 12498-1-AP

Featured Product

2 Publications



## Basic Information

|   |  |  |
|---|--|--|
| <b>Catalog Number:</b><br>12498-1-AP  | <b>GenBank Accession Number:</b><br>BC013115     | <b>Purification Method:</b><br>Antigen affinity purification                                     |
| <b>Size:</b><br>150ul, Concentration: 350 µg/ml by Nanodrop and 333 µg/ml by Bradford method using BSA as the standard; | <b>GeneID (NCBI):</b><br>23543                   | <b>Recommended Dilutions:</b><br>WB 1:500-1:3000<br>IP 0.5-4.0 ug for IP and 1:500-1:2000 for WB |
| <b>Source:</b><br>Rabbit  | <b>Full Name:</b><br>RNA binding motif protein 9 | <b>IHC 1:50-1:500</b>  |
| <b>Isotype:</b><br>IgG  | <b>Calculated MW:</b><br>390 aa, 41 kDa          | <b>IF 1:50-1:500</b>   |
| <b>Immunogen Catalog Number:</b><br>AG3168  | <b>Observed MW:</b><br>50 and 60 kDa             |  |

## Applications

**Tested Applications:**  
IF, IHC, IP, WB, ELISA

**Cited Applications:**  
CoIP, IF, WB

**Species Specificity:**  
human, mouse

**Cited Species:**  
human

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

**WB:** HEK-293T cells, HepG2 cells, HEK-293 cells, Jurkat cells, NCCIT cells, HeLa cells, Neuro-2a cells

**IP:** HepG2 cells, K-562 cells

**IHC:** human breast cancer tissue, human placenta tissue, mouse brain tissue, human ovary tumor tissue, human lung cancer tissue

**IF:** mouse brain tissue,

## Background Information

RBM9, also named as RBFOX2 and FOX2, is a RNA-binding protein that regulates alternative splicing events by binding to 5'-UGCAUGU-3' elements. There are several isoforms of RBM9 produced by variable use of multiple alternatively spliced internal exons and alternative splice sites. RBM9 may play an important role in tissue specific alternative splicing regulation. (PMID: 19688295, 21623373, 16537540)

## Notable Publications

| Author        | Pubmed ID | Journal       | Application |
|---------------|-----------|---------------|-------------|
| Yingchao Wang | 38089592  | iScience      | WB          |
| Xiaoyang Dou  | 37640841  | Nat Cell Biol | WB,IF,CoIP  |

## Storage

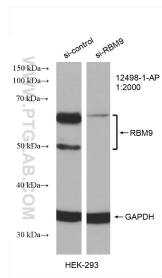
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

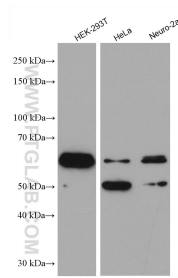
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

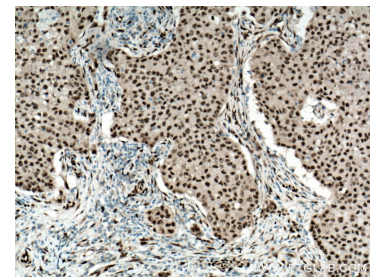
## Selected Validation Data



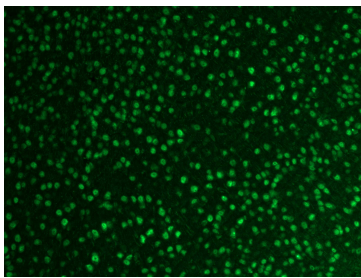
WB result of FOX2/RBM9 antibody (12498-1-AP; 1:2000); incubated at room temperature for 1.5 hours with sh-Control and sh-FOX2/RBM9 transfected HEK-293 cells.



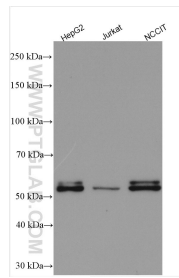
Various lysates were subjected to SDS PAGE followed by western blot with 12498-1-AP (FOX2/RBM9 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



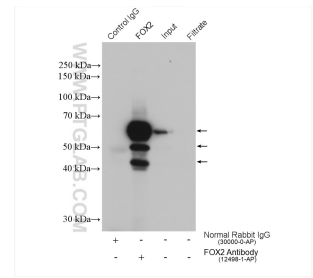
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 12498-1-AP (FOX2/RBM9 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



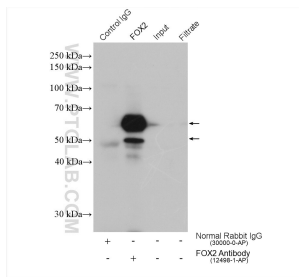
Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using 12498-1-AP (FOX2/RBM9 antibody) at dilution of 1:100 and CoraLite488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Various lysates were subjected to SDS PAGE followed by western blot with 12498-1-AP (FOX2/RBM9 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



IP result of anti-FOX2/RBM9(IP:12498-1-AP, 4ug; Detection:12498-1-AP 1:1000) with HepG2 cells lysate 2680 ug.



IP result of anti-FOX2/RBM9(IP:12498-1-AP, 4ug; Detection:12498-1-AP 1:1000) with K-562 cells lysate 1760 ug.