

For Research Use Only

# JTV1 Polyclonal antibody

Catalog Number: 10424-1-AP

Featured Product

28 Publications



## Basic Information

### Catalog Number:

10424-1-AP

### Size:

150ul, Concentration: 600 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG0675

### GenBank Accession Number:

BC002853

### GeneID (NCBI):

7965

### UNIPROT ID:

Q13155

### Full Name:

JTV1 gene

### Calculated MW:

36 kDa

### Observed MW:

35 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:8000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

IF/ICC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB, IHC, IF, IP, CoIP

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat

### Positive Controls:

**WB** : HepG2 cells, HeLa cells, K-562 cells, NIH/3T3 cells, rat liver tissue, L02 cells

**IP** : HeLa cells,

**IHC** : mouse cerebellum tissue, human kidney tissue, mouse testis tissue

**IF/ICC** : HeLa cells, HepG2 cells

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

## Background Information

JTV1, also named p38, AIMP2, was first known as a factor associated with macromolecular protein complex, which consists several different aminoacyl-tRNA synthetases. JTV1 is a scaffold protein required for the assembly and stability of the multi-tRNA synthetase complex. JTV1 could act as a mediator of TGF-beta signaling and its functional importance in the control of MYC during lung differentiation. Blocks MDM2-mediated ubiquitination and degradation of p53/TP53. Functions as a proapoptotic factor. This is a rabbit polyclonal antibody raised against full-length of JTV1. There're two isoforms of JTV1 with MW about 27 kDa and 35 kDa,

## Notable Publications

| Author          | Pubmed ID | Journal                  | Application |
|-----------------|-----------|--------------------------|-------------|
| Ko Han Seok HS  | 20823226  | Proc Natl Acad Sci U S A | WB          |
| Krishnendu Khan | 36037331  | Proc Natl Acad Sci U S A | WB          |
| Hyojung Kim     | 28972555  | Int J Mol Sci            | WB          |

## 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

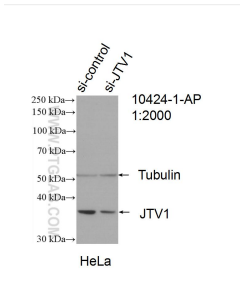
For technical support and original validation data for this product please contact:

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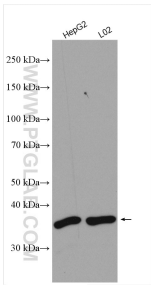
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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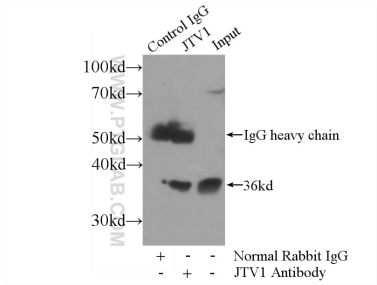
Selected Validation Data



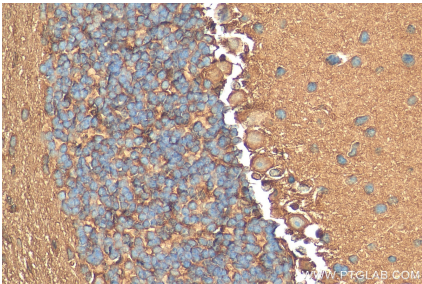
WB result of JTV1 antibody (10424-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-JTV1 transfected HeLa cells.



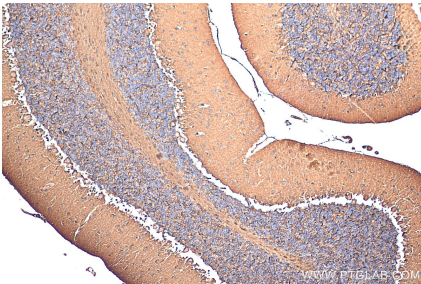
Various lysates were subjected to SDS PAGE followed by western blot with 10424-1-AP (JTV1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



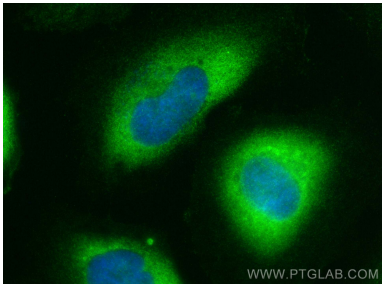
IP result of anti-JTV1 (IP:10424-1-AP, 3ug; Detection:10424-1-AP 1:1000) with HeLa cells lysate 800ug.



Immunohistochemical analysis of paraffin-embedded mouse cerebellum tissue slide using 10424-1-AP (JTV1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse cerebellum tissue slide using 10424-1-AP (JTV1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using JTV1 antibody (10424-1-AP) at dilution of 1:200 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002).