

For Research Use Only

# DBR1 Monoclonal antibody

Catalog Number: 66951-1-Ig **Featured Product**



## Basic Information

**Catalog Number:**

66951-1-Ig

**Size:**

2100 µg/ml

**Source:**

Mouse

**Isotype:**

IgG2b

**Immunogen Catalog Number:**

AG8830

**GenBank Accession Number:**

BC009472

**GeneID (NCBI):**

51163

**UNIPROT ID:**

Q9UK59

**Full Name:**

debranching enzyme homolog 1 (S. cerevisiae)

**Calculated MW:**

544 aa, 62 kDa

**Observed MW:**

70-80 kDa

**Purification Method:**

Protein A purification

**CloneNo.:**

3B5A7

**Recommended Dilutions:**

WB 1:5000-1:50000

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

IHC 1:250-1:1000

IF 1:200-1:800

## Applications

**Tested Applications:**

IF/ICC, IHC, IP, WB, ELISA

**Species Specificity:**

Human, Mouse, Rat, Pig

**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:** human brain tissue, HeLa cells, MCF-7 cells, fetal human brain tissue, pig brain tissue, rat brain tissue, mouse brain tissue, HepG2 cells

**IP:** HeLa cells, mouse brain tissue

**IHC:** mouse brain tissue,

**IF:** A431 cells,

## Background Information

DBR1(Lariat debranching enzyme) hydrolyzes 2-prime-to-5-prime branched phosphodiester bonds at the branch point of excised lariat intron RNA and converts them into linear molecules. DBR1 belongs to the lariat debranching enzyme family. Inhibitor of Dbr1 can suppress TDP-43 toxicity in primary neurons, suggesting that Dbr1 could be a potential therapeutic target for ALS and related TDP-43 proteinopathies (PMID: 23104007). This protein has 2 isoforms produced by alternative splicing.

## 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

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

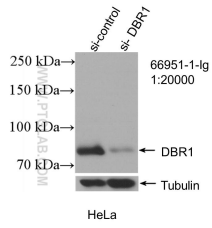
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

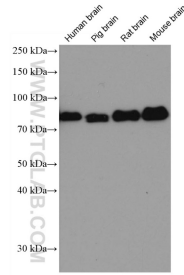
W: [ptgcn.com](http://ptgcn.com)

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

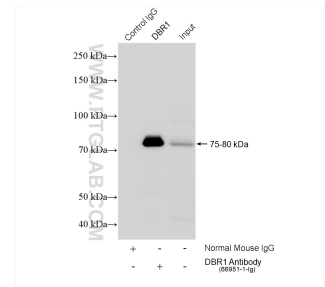
## Selected Validation Data



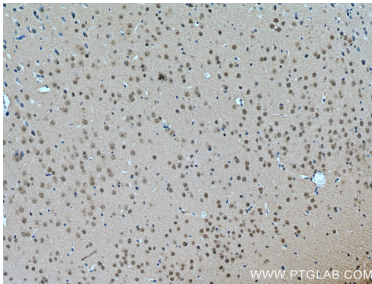
WB result of DBR1 antibody (66951-1-Ig; 1:20000; incubated at room temperature for 1.5 hours) with sh-Control and sh-DBR1 transfected HeLa cells.



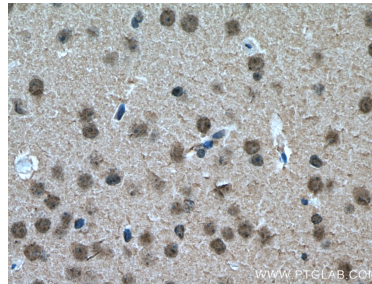
Various lysates were subjected to SDS PAGE followed by western blot with 66951-1-Ig (DBR1 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



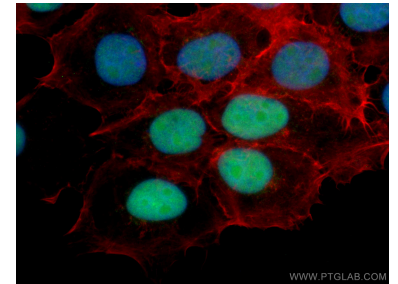
IP result of anti-DBR1 (IP:66951-1-Ig, 4ug; Detection:66951-1-Ig 1:2000) with HeLa cells lysate 1560 ug.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 66951-1-Ig (DBR1 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 66951-1-Ig (DBR1 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed A431 cells using DBR1 antibody (66951-1-Ig, Clone: 3B5A7 ) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-Phalloidin (red).