

For Research Use Only

# NDRG2 Recombinant antibody

Catalog Number: 83902-7-RR

Featured Product



## Basic Information

Catalog Number:

83902-7-RR

Concentration:

1000 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG2629

GenBank Accession Number:

BC010458

GeneID (NCBI):

57447

UNIPROT ID:

Q9UN36

Full Name:

NDRG family member 2

Calculated MW:

371 aa, 39 kDa

Observed MW:

41-45 kDa

Purification Method:

Protein A purification

CloneNo.:

241039E8

Recommended Dilutions:

WB 1:5000-1:50000

IHC 1:200-1:800

## Applications

Tested Applications:

WB, IHC, FC (Intra), ELISA

Species Specificity:

human, mouse, rat

**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 : mouse brain tissue, HepG2 cells, rat brain tissue, mouse heart tissue, rat heart tissue, human heart tissue

IHC : mouse brain tissue,

## Background Information

N-myc downstream-regulated gene 2 (NDRG2) is a newly identified member of the NDRG family that is highly localized and plays an important role in the regulation of astrocyte function. In astrocytes, NDRG2 affects the regulation of apoptosis, astrogliosis, blood-brain barrier integrity, and glutamate clearance. Several preclinical studies have revealed that NDRG2 is implicated in the pathogenesis of many neurological diseases, such as stroke, neurodegeneration and psychiatric disorders. Recent studies demonstrated that NDRG2 functions as a tumor suppressor and may be a prognostic predictor for many different malignant tumors.

## Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

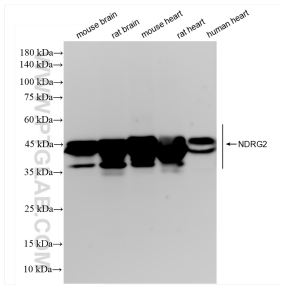
T: 4006900926

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

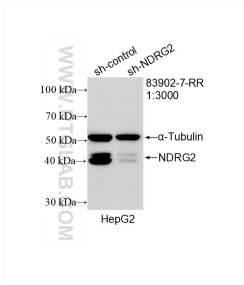
W: [ptgcn.com](http://ptgcn.com)

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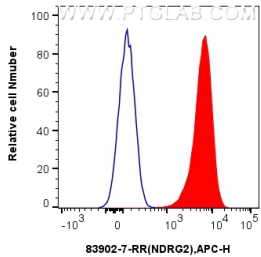
Selected Validation Data



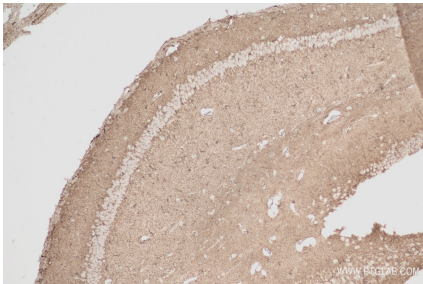
Various lysates were subjected to SDS PAGE followed by western blot with 83902-7-RR (NDRG2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



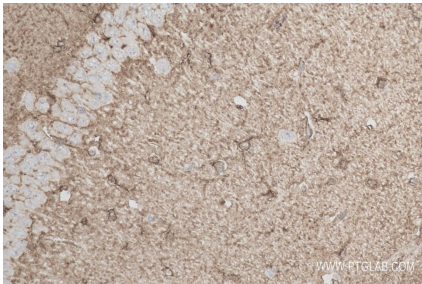
WB result of NDRG2 antibody (83902-7-RR; 1:3000; incubated at room temperature for 1.5 hours) with sh-Control and sh-NDRG2 transfected HepG2 cells.



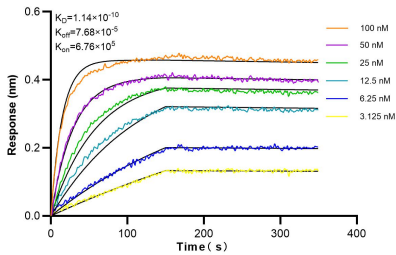
$1 \times 10^6$  HepG2 cells were intracellularly stained with 0.25  $\mu$ g NDRG2 Recombinant antibody (83902-7-RR, Clone:241039E8) and APC-Conjugated Goat Anti-Rabbit IgG(H+L)(red), or 0.25  $\mu$ g Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 83902-7-RR (NDRG2 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 83902-7-RR (NDRG2 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Biolayer interferometry (BLI) kinetic assays of 83902-7-RR against Human NDRG2 were performed. The affinity constant is 0.114 nM.