

For Research Use Only

# NDRG2 Recombinant antibody

Catalog Number:83902-7-RR



## Basic Information

<b>Catalog Number:</b> 83902-7-RR	<b>GenBank Accession Number:</b> BC010458	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 57447	<b>CloneNo.:</b> 241039E8
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q9UN36	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IHC 1:200-1:800
<b>Isotype:</b> IgG	<b>Full Name:</b> NDRG family member 2	
<b>Immunogen Catalog Number:</b> AG2629	<b>Calculated MW:</b> 371 aa, 39 kDa	
	<b>Observed MW:</b> 41-45 kDa	

## 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, 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 pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

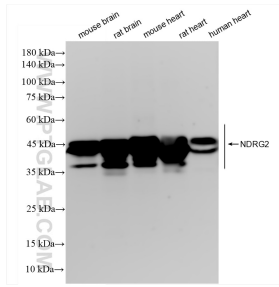
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

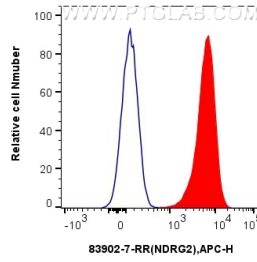
E: proteintech@ptglab.com  
W: ptglab.com

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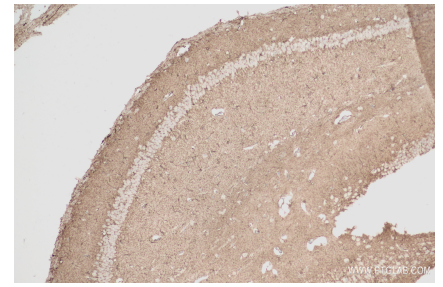
## Selected Validation Data



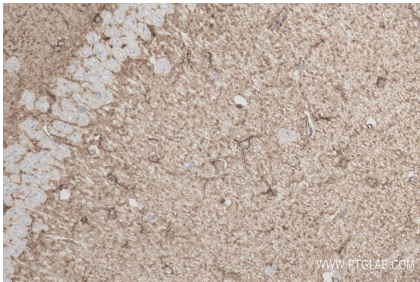
Various lysates were subjected to SDS PAGE followed by western blot with 83902-7-RR (NDRG2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



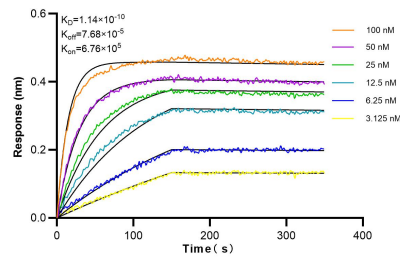
$1 \times 10^6$  HepG2 cells were intracellularly stained with 0.25  $\mu$ g NDRG2 Recombinant antibody (83902-7-RR, Clone:241039E8) and APC-Conjugated Goat Anti-Rabbit IgG(H+L)(red), or 0.25  $\mu$ g Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer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