

For Research Use Only

# NDRG1 Recombinant antibody, PBS Only

Catalog Number: 85141-4-PBS



## Basic Information

<b>Catalog Number:</b> 85141-4-PBS	<b>GenBank Accession Number:</b> BC006260	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug , Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 10397	<b>CloneNo.:</b> 242322F7
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q92597	
<b>Isotype:</b> IgG	<b>Full Name:</b> N-myc downstream regulated 1	
<b>Immunogen Catalog Number:</b> AG25424	<b>Calculated MW:</b> 43 kDa	
	<b>Observed MW:</b> 45-46 kDa	

## Applications

**Tested Applications:**  
WB, IHC, FC (Intra), IP, Indirect ELISA

**Species Specificity:**  
human, rat

## Background Information

NDRG1 is a member of the N-myc down-regulated gene family which belongs to the alpha/beta hydrolase superfamily. NDRG1 is a highly conserved cytoplasmic protein involved in cell growth arrest and proliferation, cell differentiation, DNA damage response, heavy metal response, the hypoxia response, tumorigenesis, and metastasis. NDRG1 is a potent metastasis suppressor in multiple tumor-types. NDRG1 appears to serve as a putative tumor suppressor and is down-regulated in colorectal, gastric, cervical, ovarian and prostate cancers.

## Storage

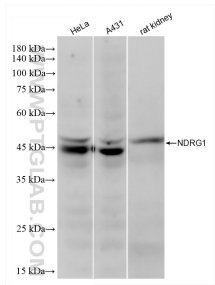
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS only

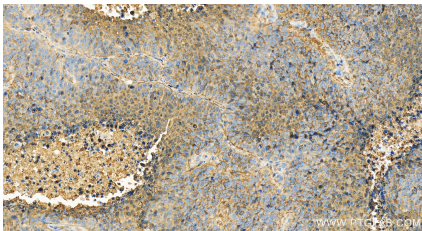
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

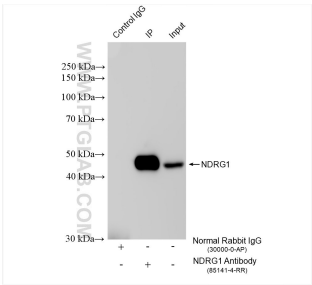
Selected Validation Data



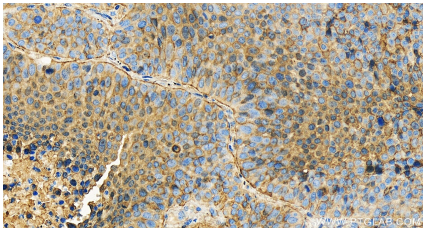
Various lysates were subjected to SDS PAGE followed by western blot with 85141-4-RR (NDRG1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 85141-4-PBS in a different storage buffer formulation.



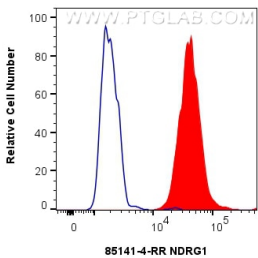
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 85141-4-RR (NDRG1 antibody) at dilution of 1:400 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 85141-4-PBS in a different storage buffer formulation.



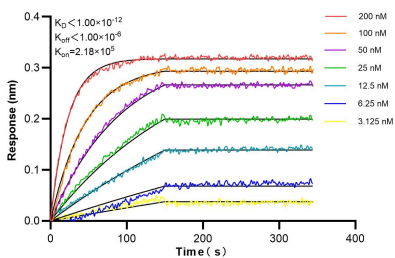
IP result of anti-NDRG1 (IP:85141-4-RR, 4ug; Detection:85141-4-RR 1:1000) with HeLa cells lysate 1520 ug. This data was developed using the same antibody clone with 85141-4-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 85141-4-RR (NDRG1 antibody) at dilution of 1:400 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 85141-4-PBS in a different storage buffer formulation.



1x10<sup>6</sup> HeLa cells were intracellularly stained with 0.25 ug NDRG1 Recombinant antibody (85141-4-RR, Clone:242322F7) and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 ug Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C). This data was developed using the same antibody clone with 85141-4-PBS in a



Biolayer interferometry (BLI) kinetic assays of 85141-4-RR against Human NDRG1 were performed. The affinity constant is below 1 pM.