



Rabbit Anti-Phospho-NDRG1 (Ser330) antibody

SL3297R

Product Name:	Phospho-NDRG1 (Ser330)
Chinese Name:	磷酸化分化相关基因NDRG1抗体
Alias:	NDRG1 (phospho S330); P-NDRG1 (Ser330); N-myc downstream regulated gene 1; TDD5; 42 kDa; cap43; cmt4d; Differentiation related gene1 protein; Drg 1; drg1; gc4; hmsnl; Human mRNA for RTP complete cds; N myc downstream regulated gene 1 protein; Ndr 1; NDRG 1; Nickel specific induction protein Cap43; Nmyc downstream regulated gene1; Protein NDRG1; Protein regulated by oxygen 1 ; Protein regulated by oxygen1; proxy1; reducin; Reducing agents and tunicamycin responsive protein; rit42; rtp; targ1; tdds; tunicamycin-responsive protein; NDRG1 HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Cow,Horse,Rabbit,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	43kDa
Cellular localization:	The nucleuscytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated Synthesised phosphopeptide derived from human NDRG1 around the phosphorylation site of Ser330:TA(p-S)GS
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

PubMed:[PubMed](#)

This gene is a member of the N-myc downregulated gene family which belongs to the alpha/beta hydrolase superfamily. The protein encoded by this gene is a cytoplasmic protein involved in stress responses, hormone responses, cell growth, and differentiation. The encoded protein is necessary for p53-mediated caspase activation and apoptosis. Mutations in this gene are a cause of Charcot-Marie-Tooth disease type 4D, and expression of this gene may be a prognostic indicator for several types of cancer. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, May 2012]

Function:

May have a growth inhibitory role.

Subunit:

Ubiquitous; expressed most prominently in placental membranes and prostate, kidney, small intestine, and ovary tissues. Also expressed in heart, brain, skeletal muscle, lung, liver and pancreas. Low levels in peripheral blood leukocytes and in tissues of the immune system. Expressed mainly in epithelial cells. Also found in Schwann cells of peripheral neurons. Reduced expression in adenocarcinomas compared to normal tissues. In colon, prostate and placental membranes, the cells that border the lumen show the highest expression.

Subcellular Location:

Cytoplasm. Nucleus. Cell membrane. Whereas in prostate epithelium and placental chorion it is located in both the cytoplasm and the nucleus, nuclear staining is not observed in colon epithelium cells. Instead its localization changes from the cytoplasm to the plasma membrane during differentiation of colon carcinoma cell lines in vitro.

Tissue Specificity:

Ubiquitous; expressed most prominently in placental membranes and prostate, kidney, small intestine, and ovary tissues. Also expressed in heart, brain, skeletal muscle, lung, liver and pancreas. Low levels in peripheral blood leukocytes and in tissues of the immune system. Expressed mainly in epithelial cells. Also found in Schwann cells of peripheral neurons. Reduced expression in adenocarcinomas compared to normal tissues. In colon, prostate and placental membranes, the cells that border the lumen show the highest expression.

Post-translational modifications:

Under stress conditions, phosphorylated in the C-terminal on many serine and threonine residues. Phosphorylated in vitro by PKA. Phosphorylation enhanced by increased intracellular cAMP levels. Homocysteine induces dephosphorylation. Phosphorylation by SGK1 is cell cycle dependent.

DISEASE:

Defects in NDRG1 are the cause of Charcot-Marie-Tooth disease type 4D (CMT4D) ; also known as hereditary motor and sensory neuropathy Lom type (HMSNL). CMT4D

Product Detail:

is a recessive form of Charcot-Marie-Tooth disease, the most common inherited disorder of the peripheral nervous system. Charcot-Marie-Tooth disease is classified in two main groups on the basis of electrophysiologic properties and histopathology: primary peripheral demyelinating neuropathy and primary peripheral axonal neuropathy. Demyelinating CMT neuropathies are characterized by severely reduced nerve conduction velocities (less than 38 m/sec), segmental demyelination and remyelination with onion bulb formations on nerve biopsy, slowly progressive distal muscle atrophy and weakness, absent deep tendon reflexes, and hollow feet. By convention, autosomal recessive forms of demyelinating Charcot-Marie-Tooth disease are designated CMT4.

Similarity:

Belongs to the NDRG family.

SWISS:

Q92597

Gene ID:

10397

Database links:

[Entrez Gene: 10397](#)Human

[Entrez Gene: 17988](#)Mouse

[Entrez Gene: 299923](#)Rat

[Omim: 605262](#)Human

[SwissProt: Q92597](#)Human

[SwissProt: Q62433](#)Mouse

[SwissProt: Q6JE36](#)Rat

[Unigene: 372914](#)Human

[Unigene: 30837](#)Mouse

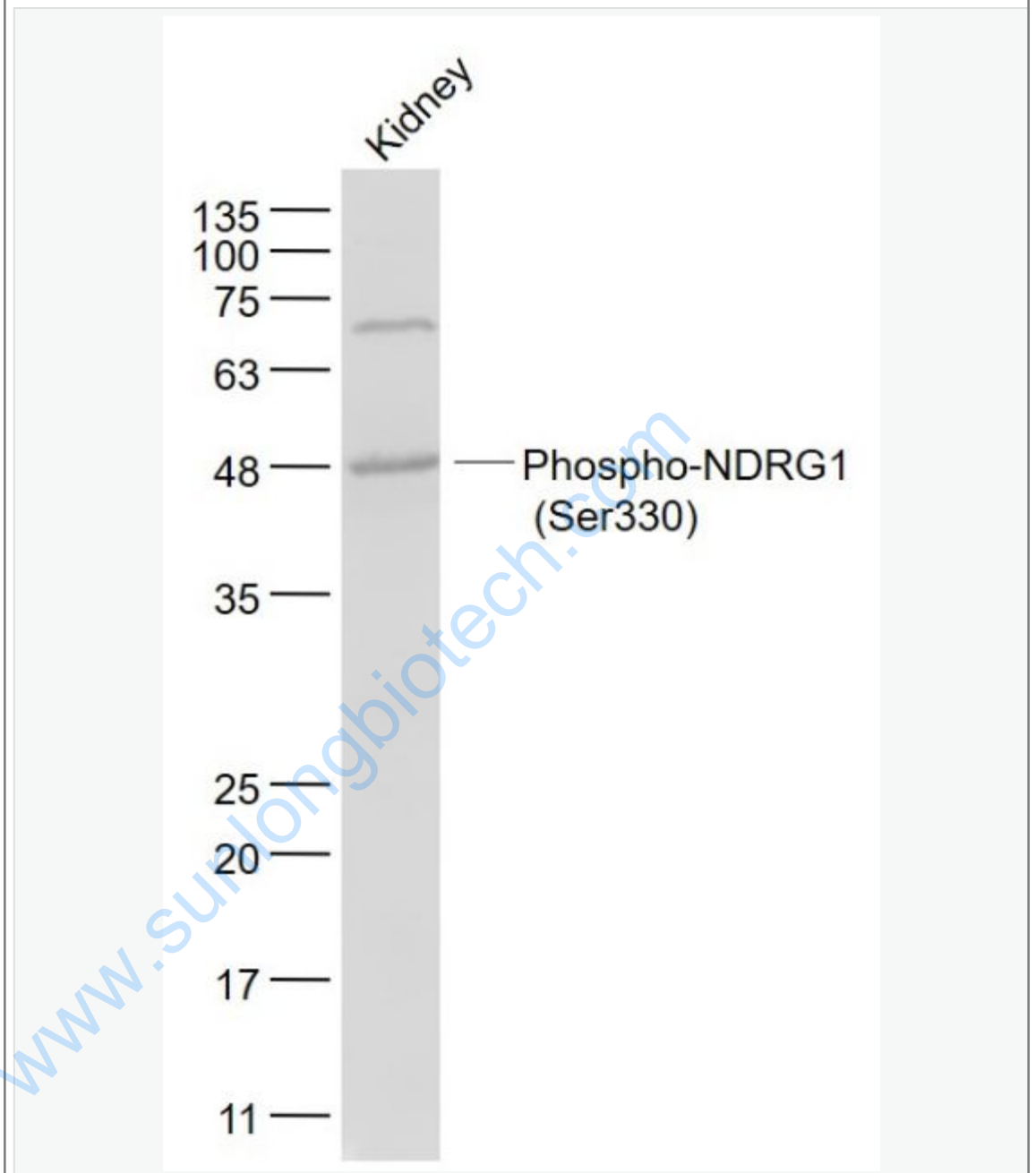
[Unigene: 153992](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

NDRG1主要与恶性Tumour细胞的增值、分化有关。

Picture:



Sample:

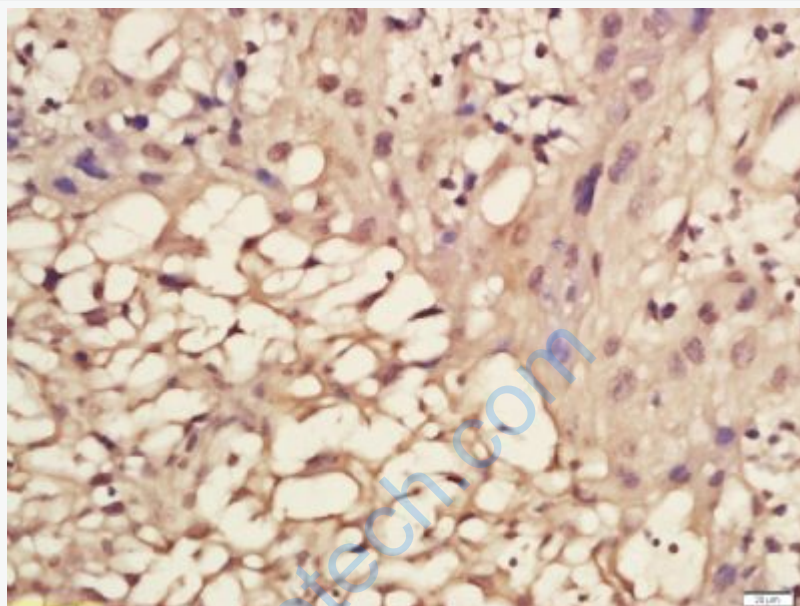
Kidney (Mouse) Lysate at 40 ug

Primary: Anti- Phospho-NDRG1 (Ser330) (SL3297R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 43 kD

Observed band size: 48 kD



Tissue/cell: Mouse embryos tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-Phospho-NDRG1 (Ser330) Polyclonal Antibody,

Unconjugated(SL3297R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining