# Rabbit Anti－Phospho－NDRG1（Thr346）antibody 

## SL3298R

| Product Name： | Phospho－NDRG1（Thr346）U |
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| Chinese Name： | 磷酸化分化相关基因NDRG1抗体 |
| Alias： | NDRG1（Phospho Thr346）；NDRG1（Phospho T346）；p－NDRG1（Thr346）；N－myc downstream regulated gene 1；TDD5； 42 kDa ；cap43；cmt4d；Differentiation related gene 1 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 oxygen 1；proxy1；reducin；Reducing agents and tunicamycin responsive protein；rit42；rtp； $\operatorname{targ} 1$ ；tdds；tunicamycin－responsive protein． |
|  | － |
| Organism Species： | Rabbit |
| Clonality： | Polyclonal |
| React Species： | Human，Mouse，Rat，Dog，Cow，Horse， |
| Applications： | ELISA $=1: 500-1000 \mathrm{IHC}-\mathrm{P}=1: 400-800 \mathrm{IHC}-\mathrm{F}=1: 400-800 \mathrm{IF}=1: 100-500$（Paraffin sections need antigen repair） not yet tested in other applications． optimal dilutions／concentrations should be determined by the end user． |
| Molecular weight： | 43 kDa |
| Cellular localization： | The nucleuscytoplasmicThe cell membrane |
| Form： | Lyophilized or Liquid |
| Concentration： | $1 \mathrm{mg} / \mathrm{ml}$ |
| immunogen： | KLH conjugated Synthesised phosphopeptide derived from human NDRG1 around the phosphorylation site of Thr346：SH（p－T）SE |
| 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 $-20^{\circ} \mathrm{C}$ 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 $-20^{\circ} \mathrm{C}$ ．When reconstituted in sterile pH 7.40 .01 M PBS or diluent of antibody the antibody is stable for at least two weeks at $2-4^{\circ} \mathrm{C}$ ． |



## 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) [MIM:601455]; also known as hereditary motor and sensory neuropathy Lom type (HMSNL). CMT4D 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 $38 \mathrm{~m} / \mathrm{sec}$ ), 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: 10397Human
Entrez Gene: 17988Mouse
Entrez Gene: 299923Rat
Omim: 605262Human
SwissProt: Q92597Human
SwissProt: Q62433Mouse
SwissProt: Q6JE36Rat
Unigene: 372914Human
Unigene: 30837Mouse

|  | Unigene：153992Rat |
| :---: | :---: |
|  | Important Note： <br> This product as supplied is intended for research use only，not for use in human， therapeutic or diagnostic applications． <br> NDRG1主要与恶性Tumour细胞的增值，分化有关。 |
| Picture： |  |
|  | Paraformaldehyde－fixed，paraffin embedded（human brain glioma）；Antigen retrieval by microwave in sodium citratebuffer（ pH 6.0 ）；Block endogenous peroxidase by $3 \%$ hydrogen peroxide for 30 minutes；Blocking buffer（3\％BSA）at RTfor 30min； Antibody incubation with（NDRG1（Thr346））Polyclonal／MonoclonalAntibody， Unconjugated（SL3298R）at 1：400 overnight at $4^{\circ} \mathrm{C}$ ，followed by conjugation to the secondary antibody（labeled with HRP）and DAB staining． |




