

# Human NDRG1 antibody

Catalog Number: ATGA0401

## PRODUCT INFORMATION

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**Catalog number**

ATGA0401

**Clone No.**

AT11G4

**Product type**

Monoclonal Antibody

**UnitProt No.**

Q92597

**NCBI Accession No.**

NP\_006087

**Alternative Names**

N-myc downstream regulated 1, CAP43, CMT4D, DRG1, GC4, HMSNL, NMSL, PROXY1, RIT42, RTP, TARG1, TDD5, N-myc downstream regulated 1 TDD5, 42 kDa, anti-GC4, cmt4d, Differentiation related gene1 protein, Drg 1, hmsnl, Human mRNA for RTP complete cds, NDRG1, tdds, N myc downstream regulated gene 1, N myc downstream regulated gene 1 protein, Ndr 1, ndr1, NDRG 1, NDRG1 protein, Protein nickel specific induction protein, Nickel specific induction protein Cap43, nmsl, Nmyc downstream regulated, reduced in tumor, reducin, Nmyc downstream regulated gene1, Nmyc downstream regulated gene1 protein, Protein regulated by oxygen 1, Protein regulated by oxygen1, proxy1, Reducing agents and tunicamycin responsive protein, tunicamycin-responsive protein

## PRODUCT SPECIFICATION

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**Antibody Host**

Mouse

**Reacts With**

Human

**Concentration**

1mg/ml (determined by BCA assay)

**Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

**Immunogen**

Recombinant human NDRG1 (1-394aa) purified from E. coli

**Isotype**

IgG1 kappa

**Purification Note**

By protein-A affinity chromatography

**Application**

ELISA, WB, ICC/IF

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## Usage

The antibody has been tested by ELISA, Western blot and ICC/IF analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

## Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

### Description

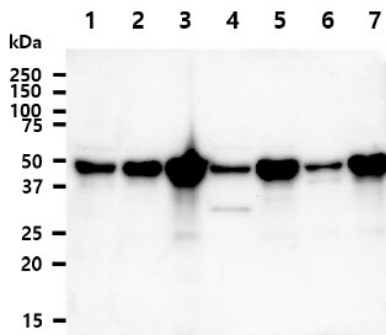
N-myc downstream regulated gene (NDRG) -1 is one of 4 members of the NDRG alpha/beta-hydrolase family. This protein is classified in databases as a tumor suppressor and heavy metal-response protein. Its functions include cell-cycle regulation, cellular differentiation, apoptosis, hypoxia response and metal-ion sensing. Mutation in the NDRG1 gene has been reported to be causative for hereditary motor and sensory neuropathy-Lom (HMSNL), a severe autosomal recessive form of Charcot-Marie-Tooth (CMT) disease.

### General References

- Van Belzen N., et al. (1997) Lab Invest. 77(1): 85-92.
- Kokame K., et al. (1997) J Biol Chem. 271(47): 29659-29665.
- Zhang J., et al. (2008) Gene. 417(1-2): 5-12.
- Kachhap SK., et al. (2007) PLoS ONE. 2(9): e844.

## DATA

### Western blot analysis (WB)



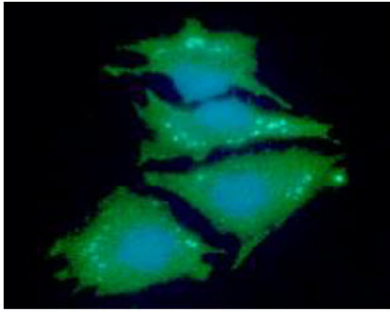
The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human NDRG1 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

- Lane 1. : LnCaP cell lysate
- Lane 2. : HeLa cell lysate
- Lane 3. : PC3 cell lysate
- Lane 4. : Hep3B cell lysate
- Lane 5. : HT1080 cell lysate
- Lane 6. : Jurkat cell lysate
- Lane 7. : SW480 cell lysate

### Immunocytochemistry/Immunofluorescence (ICC/IF)

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ICC/IF analysis of NDRG1 in HeLa cells. The cell was stained with ATGA0401 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).