

Human NDRG1 antibody

Catalog Number: ATGA0401

PRODUCT INFORMATION

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

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

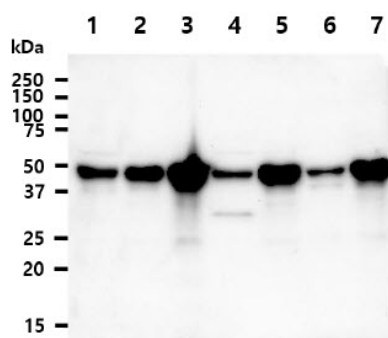
N-myc downstream regulated gene (NDRG) -1 is one of 4 members of the NDRG alpha/beta-hydrolase family. This protein is classified in databases as a tumor suppressor and heavy metal-response protein. Its functions include cell-cycle regulation, cellular differentiation, apoptosis, hypoxia response and 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)



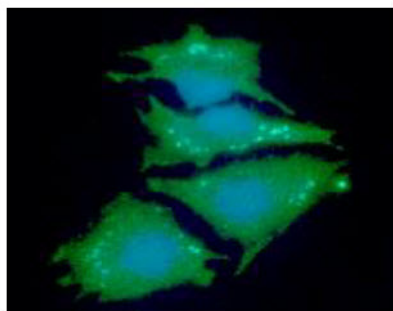
The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human NDRG1 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

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).