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# Recombinant human NDRG1 protein

Catalog Number: ATGP0386

#### **PRODUCT INFORMATION**

#### **Expression system**

E.coli

#### **Domain**

1-394aa

#### UniProt No.

092597

#### **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 protein, Protein regulated by oxygen 1, Protein regulated by oxygen1, proxy1, Reducing agents and tunicamycin responsive protein, tunicamycin-responsive protein

## **PRODUCT SPECIFICATION**

#### **Molecular Weight**

43.9 kDa (402aa) confirmed by MALDI-TOF

#### Concentration

1mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.1mM PMSF, 10% glycerol

#### **Purity**

> 95% by SDS-PAGE

#### Tag

His-Tag

#### **Application**

SDS-PAGE

#### **Storage Condition**

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**



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### **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. Recombinant human NDRG1, fused to His-tag at C-terminus, was expressed in E. coli and purified by using conventional chromatography.

### **Amino acid Sequence**

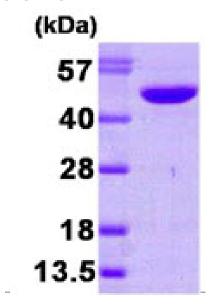
MSREMQDVDL AEVKPLVEKG ETITGLLQEF DVQEQDIETL HGSVHVTLCG TPKGNRPVIL TYHDIGMNHK TCYNPLFNYE DMQEITQHFA VCHVDAPGQQ DGAASFPAGY MYPSMDQLAE MLPGVLQQFG LKSIIGMGTG AGAYILTRFA LNNPEMVEGL VLINVNPCAE GWMDWAASKI SGWTQALPDM VVSHLFGKEE MQSNVEVVHT YRQHIVNDMN PGNLHLFINA YNSRRDLEIE RPMPGTHTVT LQCPALLVVG DSSPAVDAVV ECNSKLDPTK TTLLKMADCG GLPQISQPAK LAEAFKYFVQ GMGYMPSASM TRLMRSRTAS GSSVTSLDGT RSRSHTSEGT RSRSHTSEGT RSRSHTSEGA HLDITPNSGA AGNSAGPKSM EVSC<LEHHHH HH>

#### **General References**

Richardson DR., et al. (2008) Biochim Biophys Acta. 1783(10):1981-92. Costa M., et al. (2008) Carcinogenesis. 29(1):2-8.

#### **DATA**

#### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

