Recombinant Human NDRG1, His-tagged

Cat. No. NDRG1-30371TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human NDRG1 fused to a His tag at the C-terminal; 402 amino acids, MWt 43.9kDa.
Species	Human
Source	E.coli
ProteinLength	1-394 aa
Description	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. It is necessary for p53-mediated caspase activation and apoptosis. Mutation in this gene has been reported to be causative for hereditary motor and sensory neuropathy-Lom. Multiple alternatively spliced variants, encoding the same protein, have been identified.
Conjugation	HIS
Tissue specificity	Ubiquitous; expressed most prominently in placental membranes and prostate, kidney, small intestine, and ovary tissues. Reduced expression in adenocarcinomas compared to normal tissues. In colon, prostate and placental membranes, the cells that border the
Form	Liquid

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Purity	>95% by SDS-PAGE
Storage buffer	Preservative: NoneConstituents: 10% Glycerol, 20mM Tris HCl, 0.1mM PMSF, pH 8.0
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	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 EVSCLEHHHH HH
Sequence Similarities	Belongs to the NDRG family.
Full Length	Full L.

GENE INFORMATION

Gene Name	NDRG1 N-myc downstream regulated 1 [Homo sapiens]
Official Symbol	NDRG1
Synonyms	NDRG1; N-myc downstream regulated 1; CAP43; protein NDRG1; DRG1; NDR1; RTP; TDD5;
Gene ID	10397

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mRNA Refseq	NM_001135242
Protein Refseq	NP_001128714
MIM	605262
Uniprot ID	Q92597
Chromosome Location	8q24
Pathway	Direct p53 effectors, organism-specific biosystem; HIF-1-alpha transcription factor network, organism-specific biosystem; Validated targets of C-MYC transcriptional repression, organism-specific biosystem;
Function	Rab GTPase binding; cadherin binding; gamma-tubulin binding; microtubule binding; protein binding;

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