

# Human NDRG1 / CAP43 Protein (His Tag)



Sino Biological  
Biological Solution Specialist

Catalog Number: 14119-H08E

## General Information

### Gene Name Synonym:

CAP43; CMT4D; DRG-1; DRG1; GC4; HMSNL; NDR1; NMSL; PROXY1; RIT42; RTP; TARG1; TDD5

### Protein Construction:

A DNA sequence encoding the human NDRG1 (Q92597) (Met1-Cys394) was expressed with a polyhistidine tag at the C-terminus.

**Source:** Human

**Expression Host:** E. coli

## QC Testing

**Purity:** > 85 % as determined by SDS-PAGE

### Endotoxin:

Please contact us for more information.

### Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

**Predicted N terminal:** Met

### Molecular Mass:

The recombinant human NDRG1 consists of 401 amino acids and predicts a molecular mass of 43.8 KDa. It migrates as an approximately 43 KDa band in SDS-PAGE under reducing conditions.

### Formulation:

Lyophilized from sterile PBS, pH 7.4.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

## Usage Guide

### Storage:

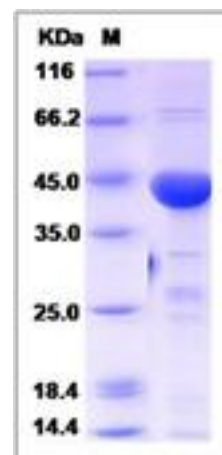
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

**Avoid repeated freeze-thaw cycles.**

### Reconstitution:

Detailed reconstitution instructions are sent along with the products.

## SDS-PAGE:



## Protein Description

NDRG1 gene is a member of the N-myc downregulated gene family which belongs to the alpha/beta hydrolase superfamily. NDRG1 is a cytoplasmic protein involved in stress responses, hormone responses, cell growth, and differentiation. NDRG1 is necessary for p53-mediated caspase activation and apoptosis. Mutations in NDRG1 gene are a cause of Charcot-Marie-Tooth disease type 4D, and expression of this gene may be a prognostic indicator for several types of cancer. NDRG1 is a stress-responsive protein involved in hormone responses, cell growth, and differentiation. It acts as a tumor suppressor in many cell types.

## References

- 1.Kachhap SK, *et al.* (2007) The N-Myc down regulated Gene1 (NDRG1) Is a Rab4a effector involved in vesicular recycling of E-cadherin. PLoS ONE. 2(9):e844.
- 2.Zhang J, *et al.* (2008) Human differentiation-related gene NDRG1 is a Myc downstream-regulated gene that is repressed by Myc on the core promoter region. Gene. 417(1-2):5-12.
- 3.Kokame K, *et al.* (1997) Homocysteine-respondent genes in vascular endothelial cells identified by differential display analysis. GRP78/BiP and novel genes. J Biol Chem. 271(47): 29659-65.

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