



Recombinant Protein Technical Manual

Recombinant Human NDRG1 Protein (His Tag)

RPES0646

Product Data:

Product SKU: RPES0646

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: Q92597

Protein Information:

Molecular Mass: 45.0 kDa

AP Molecular Mass: 52 kDa

Tag: N-6His

Bio-activity:

Purity: > 90 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH 7.2.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Protein NDRG1; Differentiation-Related Gene 1 Protein; DRG; N-myc Downstream-Regulated Gene 1 Protein; Nickel-Specific Induction Protein Cap43; Reducing Agents and Tunicamycin-Responsive Protein; RTP; Rit42; NDRG1; CAP43; DRG1; RTP

Immunogen Information:

Sequence: Met 1-Cys394

Background:

Protein NDRG1 is a member of the N-Myc Downregulated Gene family, which is part of the α/β Hydrolase superfamily. Protein NDRG1 is a cytoplasmic protein that is involved in stress responses, hormone responses, cell growth and differentiation. Protein NDRG1 is necessary for p53-mediated caspase activation and apoptosis. Protein NDRG1 mutations are reported to be the cause for hereditary motor and sensory neuropathy-Lom. Decreased NDRG1 expression in glioma is linked to tumor progression; overexpression of NDRG1 is connected to malignant status of esophageal cancer.