



# Recombinant Protein Technical Manual

## Recombinant Human NOL3 Protein

RPES0771

### Product Data:

**Product SKU:** RPES0771

**Size:** 10µg

**Species:** Human

**Expression host:** E. coli

**Uniprot:** O60936

### Protein Information:

**Molecular Mass:** 22.6 kDa

**AP Molecular Mass:** 29 kDa

**Tag:**

**Bio-activity:**

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

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

**Storage:** Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

**Shipping:** This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C.

**Formulation:** Supplied as a 0.2 µm filtered solution of 25mM TrisHCl, 1mM DTT, 1mM EDTA, 2mM β-ME, 20% Glycerol, pH 7.5.

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

**Application:**

**Synonyms:** Nucleolar Protein 3; Apoptosis Repressor With CARD; Muscle-Enriched Cytoplasmic Protein; Myp; Nucleolar Protein of 30 kDa; Nop30

## Immunogen Information:

**Sequence:** Met 1-Ser208

## Background:

Nucleolar protein 3 is encoded by NOL3 gene. Multiple transcript variants encoding different isoforms have been found for this gene. So far, Nucleolar protein 3 has show to have two Isoforms. Isoform 1 may be involved in RNA splicing. Isoform 2 functions as an apoptosis repressor that blocks multiple modes of cell death. It inhibits extrinsic apoptotic pathways through two different ways. Firstly, it by interacting with FAS and FADD upon FAS activation blocking death-inducing signaling complex (DISC) assembly. Secondly by interacting with CASP8 in a mitochondria localization- and phosphorylation-dependent manner, limiting the amount of soluble CASP8 available for DISC-mediated activation. It has been shown to down-regulate the enzyme activities of caspase 2, caspase 8 and tumor protein p53.