



Recombinant Protein Technical Manual

Recombinant Human NCK1 Protein (His Tag)

RPES2020

Product Data:

Product SKU: RPES2020

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: P16333

Protein Information:

Molecular Mass: 45.0 kDa

AP Molecular Mass: 50 kDa

Tag: N-6His

Bio-activity:

Purity: > 80 % 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 Tris, 150mM NaCl, 5% Mannitol, pH 8.0.

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

Application:

Synonyms: Cytoplasmic Protein NCK1; NCK adaptor Protein 1; Nck; SH2/SH3 Adaptor Protein NCK-Alpha; NCK1; NCK

Immunogen Information:

Sequence: Met 1-Ser377

Background:

Cytoplasmic Protein NCK1 (NCK1) is a cytoplasmic protein that contains one SH2 domain and three SH3 domains. NCK1 is a member of the adapter family, which associates with tyrosine-phosphorylated growth factor receptors, such as KDR and PDGFRB, or their cellular substrates. NCK1 maintains low levels of EIF2S1 phosphorylation by promoting its dephosphorylation by PP1. NCK1 plays a role in the DNA damage response, but not in the detection of the damage by ATM/ATR. It is also involved in transducing signals from receptor tyrosine kinases to downstream signal recipients, such as ELK1-dependent transcriptional activation in response to activated Ras signaling.