

Datasheet for ABIN7320002
NEK3 Protein (GST tag,His tag)[Go to Product page](#)

1 Image

Overview

Quantity:	50 µg
Target:	NEK3
Origin:	Mouse
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This NEK3 protein is labelled with GST tag,His tag.

Product Details

Purpose:	Recombinant Mouse NEK3 Protein (His & GST Tag)(Active)
Sequence:	Met 1-Ala 509
Characteristics:	A DNA sequence encoding the mouse NEK3 (ABK42288.1) (Met 1-Ala 509) was fused with the N-terminal polyhistidine-tagged GST tag at the N-terminus.
Purity:	> 90 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method.
Biological Activity Comment:	The specific activity was determined to be 8 nmol/min/mg using MBP as substrate.

Target Details

Target:	NEK3
Alternative Name:	NEK3 (NEK3 Products)

Target Details

Background:	<p>Background: NEK3 (NIMA (never in mitosis gene a)-related expressed kinase 3), contains 1 protein kinase domain and is a member of the NimA (never in mitosis A) family of serine/threonine protein kinases. Members of the NEK family of protein kinases share high amino acid homology with NIMA (never in mitosis gene a). NEK3 differs from other NimA family members in that it is not cell cycle regulated and is found primarily in the cytoplasm. It is activated by prolactin stimulation, leading to phosphorylation of VAV2 guanine nucleotide exchange factor, paxillin, and activation of the RAC1 GTPase. NEK3 mRNA can be detected in all the proliferating cell lines with the amount not changing during the cell cycle. Prolactin stimulates interaction between NEK3 and paxillin leading to increased paxillin phosphorylation, Analysis of breast tissue microarrays show a significant up-regulation of NEK3 expression in malignant versus normal specimens. Multiple transcript variants encoding different isoforms have been found for NEK3 gene. NEK3 may play a role in mitotic regulation.</p> <p>Synonym: NEK3</p>
-------------	--

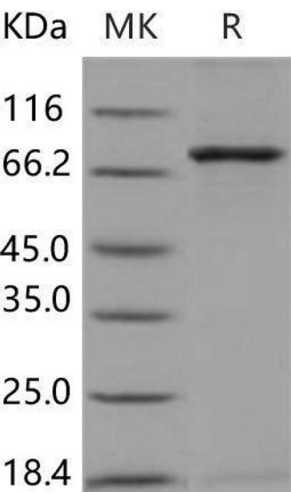
Molecular Weight:	84.8 kDa
-------------------	----------

Application Details

Restrictions:	For Research Use only
---------------	-----------------------

Handling

Format:	Frozen, Liquid
Buffer:	Supplied as sterile 20 mM Tris, 500 mM NaCl, pH 8.0, 10 % glycerol
Storage:	-20 °C
Storage Comment:	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.



Western Blotting

Image 1.