

## Serine, Threonine-Protein Kinase Nek2 (NEK2) Antibody

Catalogue No.: abx033852



Protein kinases are enzymes that transfer a phosphate group from a phosphate donor, generally the  $\gamma$  phosphate of ATP, onto an acceptor amino acid in a substrate protein. By this basic mechanism, protein kinases mediate most of the signal transduction in eukaryotic cells, regulating cellular metabolism, transcription, cell cycle progression, cytoskeletal rearrangement and cell movement, apoptosis, and differentiation. With more than 500 gene products, the protein kinase family is one of the largest families of proteins in eukaryotes. The family has been classified in 8 major groups based on sequence comparison of their tyrosine (PTK) or serine/threonine (STK) kinase catalytic domains. The STE group (homologs of yeast Sterile 7, 11, 20 kinases) consists of 50 kinases related to the mitogen-activated protein kinase (MAPK) cascade families (Ste7/MAP2K, Ste11/MAP3K, and Ste20/MAP4K). MAP kinase cascades, consisting of a MAPK and one or more upstream regulatory kinases (MAPKKs) have been best characterized in the yeast pheromone response pathway. Pheromones bind to Ste cell surface receptors and activate yeast MAPK pathway.

**Target:** Serine, Threonine-Protein Kinase Nek2 (NEK2)

**Clonality:** Polyclonal

**Reactivity:** Human

**Tested Applications:** ELISA, WB

**Host:** Rabbit

**Recommended dilutions:** WB: 1/1000. Optimal dilutions/concentrations should be determined by the end user.

**Conjugation:** Unconjugated

**Immunogen:** KLH-conjugated synthetic peptide between 396-426 amino acids from the Central region of human NEK2.

**Isotype:** IgG

**Form:** Liquid

**Purification:** Purified through a protein G column, eluted with high and low pH buffers and neutralized immediately, followed by dialysis against PBS.

# Datasheet

Version: 2.0.0  
Revision date: 13 Aug 2025



**Storage:** Aliquot and store at -20°C. Avoid repeated freeze/thaw cycles.

**UniProt Primary AC:** P51955 ([UniProt](#), [ExPASy](#))

**NCBI Accession:** NP\_001191111.1, NP\_001191112.1, NP\_002488.1

**KEGG:** hsa:4751

**String:** [9606.ENSP00000355966](#)

**Molecular Weight:** Calculated MW: 51.8 kDa

**Buffer:** PBS containing 0.09% sodium azide.

**Note:** THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC, THERAPEUTIC OR COSMETIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION.

For Reference Only