

## Rabbit anti-Human NEK3 Polyclonal Antibody | anti-NEK3 antibody

NEK3 Antibody (Center)

|                               |                       |                            |                                            |
|-------------------------------|-----------------------|----------------------------|--------------------------------------------|
| CATALOG #<br><b>AAA283862</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human</b> | APPLICATIONS<br><b>ELISA, Western Blot</b> |
|-------------------------------|-----------------------|----------------------------|--------------------------------------------|

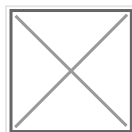
### PRODUCT SYNONYMS

NEK3; Polyclonal Antibody; NEK3 Antibody (Center); Serine/threonine-protein kinase Nek3; HSPK 36; Never in mitosis A-related kinase 3; NimA-related protein kinase 3; anti-NEK3 antibody

### PRODUCT SPECIFICATIONS

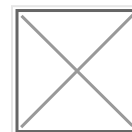
|                                                |                                                                                                                                                                              |
|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                                                                                       |
| Reactivity                                     | Human                                                                                                                                                                        |
| Clonality                                      | Polyclonal                                                                                                                                                                   |
| Isotype                                        | Rabbit Ig                                                                                                                                                                    |
| Specificity                                    | This NEK3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 331-361 amino acids from the Central region of human NEK3.            |
| Purity/Purification                            | Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)                                                                                                                   |
| Form/Format                                    | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification. |
| Concentration                                  | Vial Concentration: 0.5 (varies by lot)                                                                                                                                      |
| Sequence Positions                             | 331-361                                                                                                                                                                      |
| Sequence Length                                | 489                                                                                                                                                                          |
| Applicable Applications for anti-NEK3 antibody | ELISA, WB (Western Blot)                                                                                                                                                     |
| Antigen Type                                   | Synthetic Peptide                                                                                                                                                            |
| Antigen Source                                 | HUMAN                                                                                                                                                                        |
| Preparation and Storage                        | Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.                       |

### IMAGES



#### WB (Western Blot)

Western blot analysis of NEK3 (arrow) using rabbit polyclonal NEK3 Antibody (K346). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the NEK3 gene.



#### WB (Western Blot)

NEK3 Antibody (K346) western blot analysis in CEM cell line lysates (35ug/lane). This demonstrates the NEK3 antibody detected the NEK3 protein (arrow).

ADDITIONAL INFORMATION

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-NEK3 antibody | In Aspergillus nidulans, lack of the serine/threonine kinase NimA (never in mitosis A) results in cell cycle arrest in G2, while overexpression causes the premature onset of mitotic events. NEK3 is similar in sequence to the Aspergillus nidulans protein and may therefore play a role in mitotic regulation. However, the encoded protein differs from other NimA family members in that it is not cell cycle regulated and is found primarily in the cytoplasm. |
| Product Categories/Family for anti-NEK3 antibody   | Cancer; Signal Transduction                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| References                                         | Schultz, S.J., et al., Cell Growth Differ. 5(6):625-635 (1994).<br>Schultz, S.J., et al., Cell Growth Differ. 4(10):821-830 (1993).<br>Kimura, M., et al., Cytogenet. Cell Genet. 95 (3-4), 177-182 (2001).                                                                                                                                                                                                                                                            |

NCBI AND UNIPROT INFORMATION

|                                  |                                                |
|----------------------------------|------------------------------------------------|
| NCBI GI #                        | 225735561                                      |
| NCBI GeneID                      | 4752                                           |
| NCBI Accession #                 | NP_001139571.1; NP_002489.1; NP_689933.1       |
| NCBI GenBank Nucleotide #        | NM_001146099.1                                 |
| UniProt Accession #              | P51956; Q5TAP2; Q8J023; Q8WUN5; A8K2J4         |
| Molecular Weight                 | 57705                                          |
| NCBI Official Full Name          | serine/threonine-protein kinase Nek3 isoform b |
| NCBI Official Synonym Full Names | NIMA-related kinase 3                          |
| NCBI Official Symbol             | NEK3                                           |
| NCBI Official Synonym Symbols    | HSPK36                                         |
| NCBI Protein Information         | serine/threonine-protein kinase Nek3           |
| UniProt Protein Name             | Serine/threonine-protein kinase Nek3           |
| UniProt Gene Name                | NEK3                                           |
| UniProt Synonym Gene Names       | NimA-related protein kinase 3                  |
| UniProt Entry Name               | NEK3_HUMAN                                     |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.