

NEK3 Antibody (monoclonal) (M01)**Mouse monoclonal antibody raised against a partial recombinant NEK3.****Catalog # AT3017a****Specification**

NEK3 Antibody (monoclonal) (M01) - Product Information

Application	IF, WB, E
Primary Accession	P51956
Other Accession	BC019916
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1 Kappa
Calculated MW	57705

NEK3 Antibody (monoclonal) (M01) - Additional Information**Gene ID** 4752**Other Names**

Serine/threonine-protein kinase Nek3, HSPK 36, Never in mitosis A-related kinase 3, NimA-related protein kinase 3, NEK3

Target/Specificity

NEK3 (AAH19916, 406 a.a. ~ 506 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution

WB~~1:500~1000

Format

Clear, colorless solution in phosphate buffered saline, pH 7.2 .

Storage

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Precautions

NEK3 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

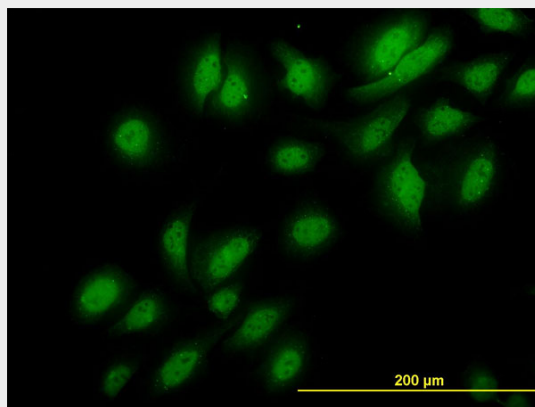
NEK3 Antibody (monoclonal) (M01) - Protocols

Provided below are standard protocols that you may find useful for product applications.

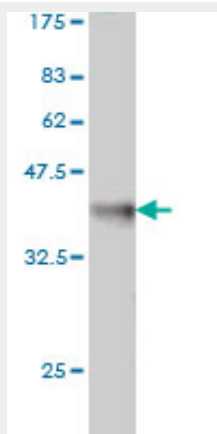
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)

- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

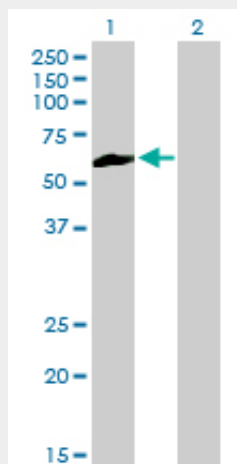
NEK3 Antibody (monoclonal) (M01) - Images



Immunofluorescence of monoclonal antibody to NEK3 on HeLa cell. [antibody concentration 10 ug/ml]



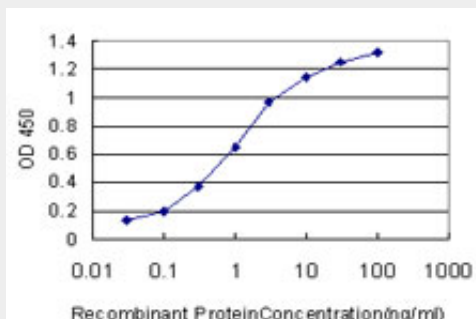
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.74 KDa) .



Western Blot analysis of NEK3 expression in transfected 293T cell line by NEK3 monoclonal antibody (M01), clone 2F8.

Lane 1: NEK3 transfected lysate(57.7 KDa).

Lane 2: Non-transfected lysate.



Detection limit for recombinant GST tagged NEK3 is approximately 0.03ng/ml as a capture antibody.

NEK3 Antibody (monoclonal) (M01) - Background

This gene encodes a member of the NimA (never in mitosis A) family of serine/threonine protein kinases. The encoded protein differs from other NimA family members in that it is not cell cycle regulated and is found primarily in the cytoplasm. The kinase is activated by prolactin stimulation, leading to phosphorylation of VAV2 guanine nucleotide exchange factor, paxillin, and activation of the RAC1 GTPase. Multiple transcript variants encoding different isoforms have been found for this gene.

NEK3 Antibody (monoclonal) (M01) - References

Personalized smoking cessation: interactions between nicotine dose, dependence and quit-success genotype score. Rose JE, et al. Mol Med, 2010 Jul-Aug. PMID 20379614. Nek3 kinase regulates prolactin-mediated cytoskeletal reorganization and motility of breast cancer cells. Miller SL, et al. Oncogene, 2007 Jul 12. PMID 17297458. Is there any association between nek3 and cancers with frequent 13q14 deletion? Hernandez M, et al. Cancer Invest, 2006 Nov. PMID 17118778. Diversification of transcriptional modulation: large-scale identification and characterization of putative alternative promoters of human genes. Kimura K, et al. Genome Res, 2006 Jan. PMID 16344560. Novel association of Vav2 and Nek3 modulates signaling through the human prolactin receptor. Miller SL, et al. Mol Endocrinol, 2005 Apr. PMID 15618286.

NEK3 Antibody (monoclonal) (M01) - Citations

- [Identification of NEK3 Threonine 165 as a Novel Regulatory Phosphorylation Site that Modulates Focal Adhesion Remodeling Necessary for Breast Cancer Cell Migration.](#)