

NLK Rabbit mAb
Catalog # AP78482**Specification****NLK Rabbit mAb - Product Information**

Application	WB
Primary Accession	Q9UBE8
Reactivity	Human
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	58283

NLK Rabbit mAb - Additional Information**Gene ID** 51701**Other Names**
NLK**Dilution**
WB~~1/500-1/1000**Format**
Liquid**NLK Rabbit mAb - Protein Information****Name** NLK**Synonyms** LAK1 {ECO:0000312|EMBL:AAD56013.1}**Function**

Serine/threonine-protein kinase that regulates a number of transcription factors with key roles in cell fate determination (PubMed: [12482967](http://www.uniprot.org/citations/12482967)), PubMed: [14960582](http://www.uniprot.org/citations/14960582)), PubMed: [15004007](http://www.uniprot.org/citations/15004007)), PubMed: [15764709](http://www.uniprot.org/citations/15764709)), PubMed: [20061393](http://www.uniprot.org/citations/20061393)), PubMed: [20874444](http://www.uniprot.org/citations/20874444)), PubMed: [21454679](http://www.uniprot.org/citations/21454679)). Positive effector of the non-canonical Wnt signaling pathway, acting downstream of WNT5A, MAP3K7/TAK1 and HIPK2 (PubMed: [15004007](http://www.uniprot.org/citations/15004007)), PubMed: [15764709](http://www.uniprot.org/citations/15764709)). Negative regulator of the canonical Wnt/beta-catenin signaling pathway (PubMed: [12482967](http://www.uniprot.org/citations/12482967)). Binds to and phosphorylates TCF7L2/TCF4 and LEF1, promoting the dissociation of the TCF7L2/LEF1/beta-catenin complex from DNA, as well as the ubiquitination and subsequent

proteolysis of LEF1 (PubMed:21454679). Together these effects inhibit the transcriptional activation of canonical Wnt/beta-catenin target genes (PubMed:12482967, PubMed:21454679). Negative regulator of the Notch signaling pathway (PubMed:20118921). Binds to and phosphorylates NOTCH1, thereby preventing the formation of a transcriptionally active ternary complex of NOTCH1, RBPJ/RBPSUH and MAML1 (PubMed:20118921). Negative regulator of the MYB family of transcription factors (PubMed:15082531). Phosphorylation of MYB leads to its subsequent proteolysis while phosphorylation of MYBL1 and MYBL2 inhibits their interaction with the coactivator CREBBP (PubMed:15082531). Other transcription factors may also be inhibited by direct phosphorylation of CREBBP itself (PubMed:15082531). Acts downstream of IL6 and MAP3K7/TAK1 to phosphorylate STAT3, which is in turn required for activation of NLK by MAP3K7/TAK1 (PubMed:15004007, PubMed:15764709). Upon IL1B stimulus, cooperates with ATF5 to activate the transactivation activity of C/EBP subfamily members (PubMed:25512613). Phosphorylates ATF5 but also stabilizes ATF5 protein levels in a kinase-independent manner (PubMed:25512613). Acts as an inhibitor of the mTORC1 complex in response to osmotic stress by mediating phosphorylation of RPTOR, thereby preventing recruitment of the mTORC1 complex to lysosomes (PubMed:26588989).

Cellular Location

Nucleus {ECO:0000250|UniProtKB:O54949}. Cytoplasm {ECO:0000250|UniProtKB:O54949}.
Note=Predominantly nuclear. A smaller fraction is cytoplasmic.
{ECO:0000250|UniProtKB:O54949}

NLK Rabbit mAb - 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](#)

NLK Rabbit mAb - Images



