

**NLK-T286 Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP7545c****Specification**

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**NLK-T286 Antibody (Center) - Product Information**

Application	IF, WB, FC,E
Primary Accession	<a href="#">O9UBE8</a>
Other Accession	<a href="#">D3ZSZ3</a> , <a href="#">O54949</a> , <a href="#">E1BMN8</a> , <a href="#">NP_057315.3</a>
Reactivity	Human
Predicted	Bovine, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	58283
Antigen Region	275-300

**NLK-T286 Antibody (Center) - Additional Information****Gene ID** 51701**Other Names**Serine/threonine-protein kinase NLK, Nemo-like kinase, Protein LAK1, NLK, LAK1  
{ECO:0000312|EMBL:AAD560131}**Target/Specificity**

This NLK-T286 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 275-300 amino acids from the Central region of human NLK-T286.

**Dilution**IF~~1:10~50  
WB~~1:1000  
FC~~1:10~50**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.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

NLK-T286 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**NLK-T286 Antibody (Center) - 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](#), PubMed:[14960582](#), PubMed:[15004007](#), PubMed:[15764709](#), PubMed:[20061393](#), PubMed:[20874444](#), PubMed:[21454679](#)). Positive effector of the non-canonical Wnt signaling pathway, acting downstream of WNT5A, MAP3K7/TAK1 and HIPK2 (PubMed:[15004007](#), PubMed:[15764709](#)). Negative regulator of the canonical Wnt/beta-catenin signaling pathway (PubMed:[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**

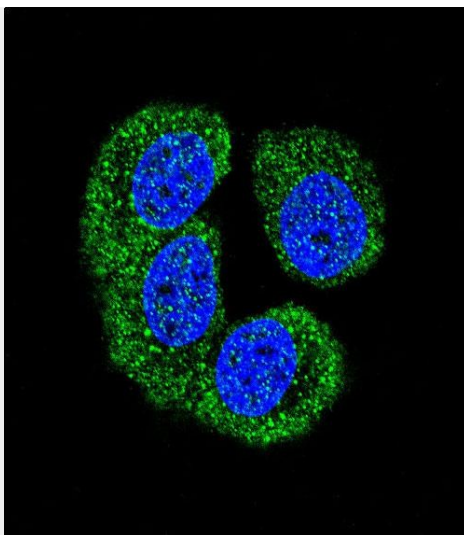
Nucleus {ECO:0000250|UniProtKB:O54949}. Cytoplasm {ECO:0000250|UniProtKB:O54949}. Note=Predominantly nuclear. A smaller fraction is cytoplasmic. {ECO:0000250|UniProtKB:O54949}

**NLK-T286 Antibody (Center) - Protocols**

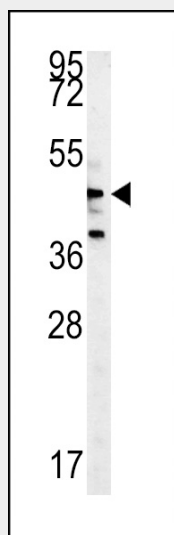
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

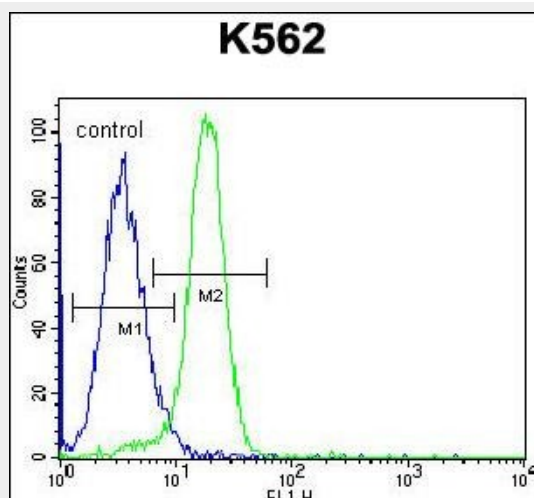
**NLK-T286 Antibody (Center) - Images**



Confocal immunofluorescent analysis of NLK-T286 Antibody (Center)(Cat#AP7545c) with MCF-7 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green).DAPI was used to stain the cell nuclear (blue).



NLK-T286 (Cat. #AP7545c) western blot analysis in Y79 cell line lysates (35ug/lane).This demonstrates the NLK antibody detected the NLK protein (arrow).



NLK-T286 Antibody (Center) (Cat. #AP7545c) flow cytometric analysis of K562 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

#### **NLK-T286 Antibody (Center) - References**

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