

Product datasheet

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ARG55816 anti-NLK antibody

Package: 100 μl Store at: -20°C

Summary

Product Description Mouse Monoclonal antibody recognizes NLK

Tested Reactivity Hu
Tested Application WB

Host Mouse

Clonality Monoclonal
Clone 1146CT24.2.1

Isotype IgG2a
Target Name NLK
Species Human

Immunogen Purified His-tagged NLK protein

Conjugation Un-conjugated

Alternate Names Protein LAK1; EC 2.7.11.24; Nemo-like kinase; Serine/threonine-protein kinase NLK

Application Instructions

Application table	Application	Dilution
	WB	1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	HeLa	

Properties

Form Liquid

Purification Purification with Protein G.

Buffer PBS and 0.09% (W/V) Sodium azide

Preservative 0.09% (W/V) Sodium azide

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links GeneID: 51701 Human

Swiss-port # Q9UBE8 Human

Gene Symbol NLK

Gene Full Name nemo-like kinase

Function Serine/threonine-protein kinase that regulates a number of transcription factors with key roles in cell

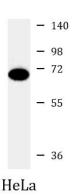
fate determination. Positive effector of the non-canonical Wnt signaling pathway, acting downstream of WNT5A, MAP3K7/TAK1 and HIPK2. Activation of this pathway causes binding to and phosphorylation of the histone methyltransferase SETDB1. The NLK-SETDB1 complex subsequently interacts with PPARG, leading to methylation of PPARG target promoters at histone H3K9 and transcriptional silencing. The resulting loss of PPARG target gene transcription inhibits adipogenesis and promotes osteoblastogenesis in mesenchymal stem cells (MSCs). Negative regulator of the canonical Wnt/betacatenin signaling pathway. 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. Together these effects inhibit the transcriptional activation of canonical Wnt/beta-catenin target genes. Negative regulator of the Notch signaling pathway. Binds to and phosphorylates NOTCH1, thereby preventing the formation of a transcriptionally active ternary complex of NOTCH1, RBPJ/RBPSUH and MAML1. Negative regulator of the MYB family of transcription factors. Phosphorylation of MYB leads to its subsequent proteolysis while phosphorylation of MYBL1 and MYBL2 inhibits their interaction with the coactivator CREBBP. Other transcription factors may also be inhibited by direct phosphorylation of CREBBP itself. Acts downstream of IL6 and MAP3K7/TAK1 to phosphorylate STAT3, which is in turn required for activation of NLK by MAP3K7/TAK1. [UniProt]

Calculated Mw 58 kDa

PTM Phosphorylated on Thr-298. Intermolecular autophosphorylation on Thr-298 activates the enzyme.

Cellular Localization Nucleus. Cytoplasm. Note=Predominantly nuclear. A smaller fraction is cytoplasmic (By similarity).

Images



ARG55816 anti-NLK antibody WB image

Western blot: 35 μg of HeLa cell lysate stained with ARG55816 anti-NLK antibody.