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anti-NUAK1 antibody (AA 362-661)



Image



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#### Overview

Quantity:	100 μL
Target:	NUAK1
Binding Specificity:	AA 362-661
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NUAK1 antibody is un-conjugated
Application:	Western Blotting (WB)

# **Product Details**

Purpose:	NUAK1 Rabbit pAb
Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 362-661 of human NUAK1 (NP_055655.1).
Sequence:	LERQRSLKKS KKENDFAQSG QDAVPESPSK LSSKRPKGIL KKRSNSEHRS HSTGFIEGVV GPALPSTFKM EQDLCRTGVL LPSSPEAEVP GKLSPKQSAT MPKKGILKKT QQRESGYYSS PERSESSELL DSNDVMGSSI PSPSPPDPAR VTSHSLSCRR KGILKHSSKY SAGTMDPALV SPEMPTLESL SEPGVPAEGL SRSYSRPSSV ISDDSVLSSD SFDLLDLQEN RPARQRIRSC VSAENFLQIQ DFEGLQNRPR PQYLKRYRNR LADSSFSLLT DMDDVTQVYK QALEICSKLN
Isotype:	IgG
Cross-Reactivity:	Human, Rat
Characteristics:	Polyclonal Antibodies

# **Product Details** Purification: Affinity purification **Target Details** Target: NUAK1 Alternative Name NUAK1 (NUAK1 Products) Background: Serine/threonine-protein kinase involved in various processes such as cell adhesion, regulation of cell ploidy and senescence, cell proliferation and tumor progression. Phosphorylates ATM, CASP6, LATS1, PPP1R12A and p53/TP53. Acts as a regulator of cellular senescence and cellular ploidy by mediating phosphorylation of 'Ser-464' of LATS1, thereby controlling its stability. Controls cell adhesion by regulating activity of the myosin protein phosphatase 1 (PP1 complex. Acts by mediating phosphorylation of PPP1R12A subunit of myosin PP1: phosphorylated PPP1R12A then interacts with 14-3-3, leading to reduced dephosphorylation of myosin MLC2 by myosin PP1. May be involved in DNA damage response: phosphorylates p53/TP53 at 'Ser-15' and 'Ser-392' and is recruited to the CDKN1A/WAF1 promoter to participate in transcription activation by p53/TP53. May also act as a tumor malignancyassociated factor by promoting tumor invasion and metastasis under regulation and phosphorylation by AKT1. Suppresses Fas-induced apoptosis by mediating phosphorylation of CASP6, thereby suppressing the activation of the caspase and the subsequent cleavage of CFLAR. Regulates UV radiation-induced DNA damage response mediated by CDKN1A. In association with STK11, phosphorylates CDKN1A in response to UV radiation and contributes to its degradation which is necessary for optimal DNA repair., NUAK1, ARK5, Cancer, Signal Transduction, Kinase, Serine/threonine kinases, NUAK1 Molecular Weight: 23kDa/74kDa Gene ID: 9891

Appl	ication	Details

Restrictions: For Research Use only

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# Handling

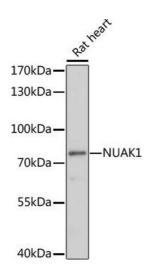
UniProt:

Format: Liquid

### Handling

Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

## **Images**



### **Western Blotting**

Image 1. Western blot analysis of extracts of rat heart, using NU antibody (ABIN7268966) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 μg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 30s.