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# anti-NUAK1 antibody





### Overview

Quantity:	200 μL
Target:	NUAK1
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NUAK1 antibody is un-conjugated
Application:	ELISA, Immunohistochemistry (IHC)

# **Product Details**

Immunogen:	Synthetic peptide of human NUAK1
Isotype:	lgG
Characteristics:	Polyclonal Antibody
Purification:	Affinity purification

# **Target Details**

Target:	NUAK1
Alternative Name:	NUAK1 (NUAK1 Products)
Background:	NUAK family SNF1-like kinase 1also known asAMPK-related protein kinase 5(ARK5) is
	anenzymethat in humans is encoded by theNUAK1gene. 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

# **Target Details**

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.

NCBI Accession:

NP\_055655

UniProt:

060285

# **Application Details**

Application Notes:

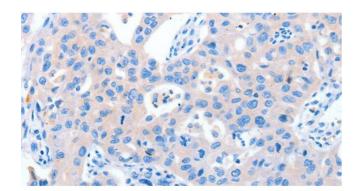
IHC 1:25-1:100

Restrictions:

For Research Use only

# Handling

Format:	Liquid
Concentration:	0.6 mg/mL
Buffer:	PBS with 0.05 % sodium azide and 50 % glycerol, PH7.4
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.



# **Immunohistochemistry (Paraffin-embedded Sections)**

**Image 1.** Immunohistochemistry of paraffin-embedded Human lung cancer tissue using NUAK1 Polyclonal Antibody at dilution 1:60