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Datasheet for ABIN7161743
anti-NUAK1 antibody (AA 442-573) (Biotin)

Overview

Quantity:	100 µg
Target:	NUAK1
Binding Specificity:	AA 442-573
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NUAK1 antibody is conjugated to Biotin
Application:	ELISA

Product Details

Immunogen:	Recombinant Human NUAK family SNF1-like kinase 1 protein (442-573AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

Target Details

Target:	NUAK1
Alternative Name:	NUAK1 (NUAK1 Products)
Background:	Background: Serine/threonine-protein kinase involved in various processes such as cell adhesion, regulation of cell ploidy and senescence, cell proliferation and tumor progression.

Target Details

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 to transcription activation by p53/TP53. May also act as a tumor malignancy-associated 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 (PubMed:25329316).

Aliases: NUAK1 antibody, ARK5 antibody, KIAA0537 antibody, OMPHK1 antibody, NUAK family SNF1-like kinase 1 antibody, EC 2.7.11.1 antibody, AMPK-related protein kinase 5 antibody, ARK5 antibody, Omphalocele kinase 1 antibody

UniProt: [O60285](#)

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Preservative: 0.03 % Proclin 300
Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C,-80 °C

Handling

Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.