

NUAK1 Antibody

Catalog No: #37345

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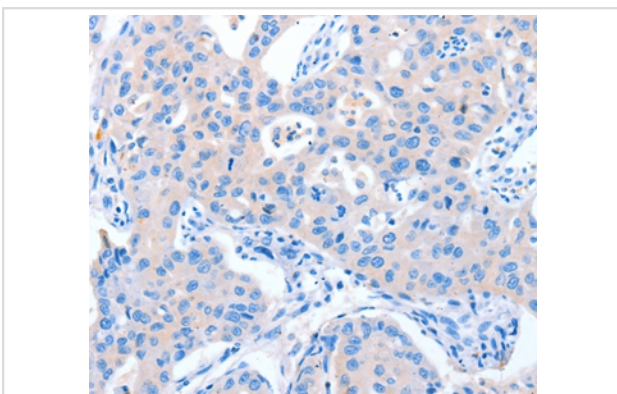
Description

Product Name	NUAK1 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antigen affinity purification.
Applications	IHC
Species Reactivity	Hu Ms
Specificity	The antibody detects endogenous levels of total NUAK1 protein.
Immunogen Type	Peptide
Immunogen Description	Synthetic peptide corresponding to a region derived from internal residues of human NUAK family, SNF1-like kinase, 1
Target Name	NUAK1
Other Names	ARK5
Accession No.	Swiss-Prot#: O60285NCBI Gene ID: 9891Gene Accssion: NP_055655
Uniprot	O60285
GeneID	9891;
Concentration	2.4mg/ml
Formulation	Rabbit IgG in pH7.4 PBS, 0.05% NaN ₃ , 40% Glycerol.
Storage	Store at -20°C

Application Details

Immunohistochemistry: 1:25-1:100

Images



Immunohistochemical analysis of paraffin-embedded Human lung cancer tissue using #37345 at dilution 1/60.

Background

NUAK family SNF1-like kinase 1?also known as?AMPK-related protein kinase 5?(ARK5) is an?enzyme?that in humans is encoded by the?NUAK1?gene. 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.

Note: This product is for in vitro research use only