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Anti-KIAA1524 Picoband Antibody

Catalog # ABO12400

Product Information

Application	WB
Primary Accession	Q8TCG1
Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Protein CIP2A(KIAA1524) detection. Tested with WB in Human;Mouse.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	57650
Other Names	Protein CIP2A, Cancerous inhibitor of PP2A, p90 autoantigen, KIAA1524, CIP2A
Calculated MW	102185
Application Details	Western blot, 0.1-0.5 □g/ml, Human, Mouse
Subcellular Localization	Membrane ; Single-pass membrane protein . Cytoplasm . Slightly concentrates in the perinuclear region.
Tissue Specificity	Expressed at low levels in most of the tissues. Overexpressed in head-and-neck squamous cell carcinomas (HNSCC). Present in liver cancer cells (at protein level). .
Source	Eukaryota
Protein Name	Protein CIP2A
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human KIAA1524 (854-889aa EVQKAQLEGRLEEKESLVKLQQEELNKHSHMIAMIH), different from the related mouse sequence by three amino acids.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins

Storage	At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.

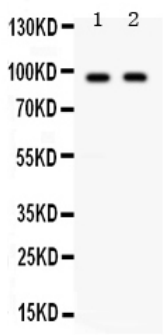
Protein Information

Name	CIP2A {ECO:0000303|PubMed:17632056, ECO:0000312|HGNC:HGNC:29302}
Function	Acts as an inhibitor of protein phosphatase PP2A (PubMed: 17632056). Promotes anchorage-independent cell growth and tumor formation by preventing dephosphorylation of MYC, thereby stabilizing MYC in human malignancies (PubMed:17632056). Together with TOPBP1, plays an essential role in the response to genome instability generated by the presence of acentric chromosome fragments derived from shattered chromosomes within micronuclei (PubMed:35121901, PubMed:35842428, PubMed:37165191, PubMed:37316668). Micronuclei, which are frequently found in cancer cells, consist of chromatin surrounded by their own nuclear membrane: following breakdown of the micronuclear envelope, a process associated with chromothripsis, the CIP2A-TOPBP1 complex tethers chromosome fragments during mitosis to ensure clustered segregation of the fragments to a single daughter cell nucleus, facilitating re-ligation with limited chromosome scattering and loss (PubMed:37165191, PubMed:37316668).
Cellular Location	Cytoplasm. Chromosome. Note=Predominantly localizes within the cytoplasm (PubMed:35842428). Localizes to broken chromosomes within micronuclei during interphase and following chromothripsis (PubMed:37165191, PubMed:37316668). Localization to broken chromosomes is mainly independent of MDC1 (PubMed:35121901, PubMed:37165191)
Tissue Location	Expressed at low levels in most of the tissues. Overexpressed in head-and-neck squamous cell carcinomas (HNSCC) Present in liver cancer cells (at protein level)

Background

Protein CIP2A, also known as □cancerous inhibitor of PP2A □(CIP2A), is a □protein □that in humans is encoded by the □KIAA1524 □gene. CIP2A is required for the malignant cellular growth and for in vivo tumor formation. In accordance with the oncogenic role of CIP2A, overexpression of CIP2A promotes Ras-elicited cell growth and transforms immortalized human cells (HEK-TERVs). More recently CIP2A has been shown to regulate phosphorylation and activity of many other oncoproteins and to drive malignant cell growth and tumorigenesis in various human cancer types. Importantly, CIP2A deficient mice are viable, suggesting that targeting of oncogenic function of CIP2A would not result in serious side-effects.

Images



Anti- KIAA1524 Picoband antibody, ABO12400, Western blottingAll lanes: Anti KIAA1524 (ABO12400) at 0.5ug/mlLane 1: Mouse Testis Tissue Lysate at 50ugLane 2: HELA Whole Cell Lysate at 40ugPredicted bind size: 102KDObserved bind size: 90KD

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.