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KIAA1524 Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP22314c

Specification

KIAA1524 Antibody (Center) - Product Information

Application	**WB,E**
Primary Accession	Q8TCG1
Reactivity	**Human**
Host	**Rabbit**
Clonality	**polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**102185**

KIAA1524 Antibody (Center) - Additional Information

Gene ID 57650

Other Names
Protein CIP2A, Cancerous inhibitor of PP2A, p90 autoantigen, KIAA1524, CIP2A

Target/Specificity
This KIAA1524 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 537-567 amino acids from the Central region of human KIAA1524.

Dilution
WB~~1:2000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
KIAA1524 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

KIAA1524 Antibody (Center) - 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)

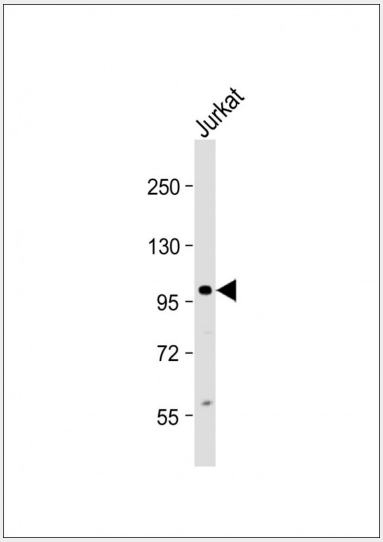
Tissue Location
Expressed at low levels in most of the tissues. Overexpressed in head-and-neck squamous cell carcinomas (HNSCC) Present in liver cancer cells (at protein level)

KIAA1524 Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KIAA1524 Antibody (Center) - Images



Anti-KIAA1524 Antibody (Center) at 1:2000 dilution + Jurkat whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 102 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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KIAA1524 Antibody (Center) - Background

Oncoprotein that inhibits PP2A and stabilizes MYC in human malignancies. Promotes anchorage-independent cell growth and tumor formation.

KIAA1524 Antibody (Center) - References

Soo Hoo L.,et al.Oncogene 21:5006-5015(2002).
Nagase T.,et al.DNA Res. 7:143-150(2000).
Bechtel S.,et al.BMC Genomics 8:399-399(2007).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Shi F.D.,et al.Prostate 63:252-258(2005).