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CIT Antibody (Center)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7124a

Specification

CIT Antibody (Center) - Product Information

Application	**IHC-P,E**
Primary Accession	O14578
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**

CIT Antibody (Center) - Additional Information

Gene ID 11113

Other Names
Citron Rho-interacting kinase, CRIK, Serine/threonine-protein kinase 21, CIT, CRIK, KIAA0949, STK21

Target/Specificity
This CIT antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide selected from the center region of human CIT.

Dilution
IHC-P~~1:50~100
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

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

CIT Antibody (Center) - Protein Information

Name CIT

Synonyms CRIK, KIAA0949, STK21

Function Plays a role in cytokinesis. Required for KIF14 localization to the central spindle and

midbody. Putative RHO/RAC effector that binds to the GTP-bound forms of RHO and RAC1. It probably binds p21 with a tighter specificity in vivo. Displays serine/threonine protein kinase activity. Plays an important role in the regulation of cytokinesis and the development of the central nervous system. Phosphorylates MYL9/MLC2.

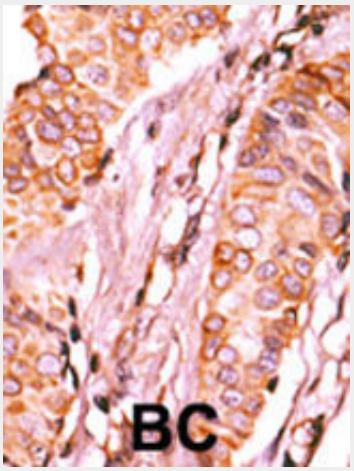
Cellular Location
Cytoplasm.

CIT 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

CIT Antibody (Center) - Images



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

CIT Antibody (Center) - Background

CIT is a putative RHO/RAC effector that binds to the GTP-bound forms of RHO and RAC1. It probably binds p21 with a tighter specificity in vivo. This protein exhibits dual specificity protein kinase activity catalyzing autophosphorylation and phosphorylation of exogenous substrates on both serine/threonine and tyrosine residues. CIT plays an important role in the regulation of cytokinesis and the development of the central nervous system.

CIT Antibody (Center) - References

Liu, H., et al., J. Biol. Chem. 278(4):2541-2548 (2003).

Di Cunto, F., et al., J. Biol. Chem. 273(45):29706-29711 (1998).