

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

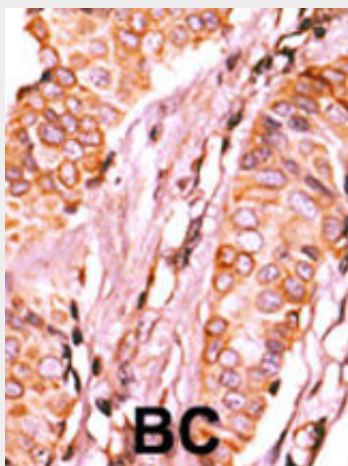
Cytoplasm.

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 Cytometry](#)
- [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).