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Datasheet for ABIN968503

anti-CIT antibody (AA 1420-1612)

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Overview

Quantity:	150 µg
Target:	CIT
Binding Specificity:	AA 1420-1612
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CIT antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Mouse CRIK aa. 1420-1612
Clone:	6-CRIK
Isotype:	IgG1 kappa
Cross-Reactivity:	Human, Rat (Rattus)
Characteristics:	<ol style="list-style-type: none">1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.2. Please refer to us for technical protocols.3. Source of all serum proteins is from USDA inspected abattoirs located in the United States.4. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.5. For fluorochrome spectra and suitable instrument settings, please refer to us.

Product Details

Purification: The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Target Details

Target: CIT

Alternative Name: CRIK ([CIT Products](#))

Background: Citron was identified by its interactions with activated Rho and Rac. It contains a zinc finger (ZF) region, a pleckstrin homology (PH) domain, a citron/MRCK/Gek (CMG) domain, and a coiled-coil domain with a Rho-Rac binding region (RRB). Citron binds to PSD-95 via its C-terminal tSXV motif and the PDZ domain on PSD-95. This association occurs at post synaptic densities where citron-PSD-95 may provide a specific link between the Rho signaling cascade and the synaptic NMDA receptor complex. Citron Rho-interacting kinase (CRIK) and CRIK short kinase (CRIK-SK) are Ser/Thr kinase isoforms of the myotonic dystrophy kinase family. CRIK contains full-length citron, with an N-terminal kinase domain. CRIK-SK is a splice variant that contains only the kinase domain. CRIK co-localizes with actin in keratinocytes and co-expression of CRIK and Rho increases CRIK kinase activity two-fold. In addition, CRIK mutants cause abnormal contraction during cytokinesis. CRIK is expressed highest in testis, but is also present in brain, spleen, lung, and kidney. Thus, CRIK is a Ser/Thr kinase that functions downstream of Rho during events such as cytokinesis and synaptic transmission.
Synonyms: Serine/Threonine Protein Kinase 21

Molecular Weight: 240 kDa

Pathways: [SARS-CoV-2 Protein Interactome](#), [The Global Phosphorylation Landscape of SARS-CoV-2 Infection](#)

Application Details

Comment: Related Products: ABIN968539, ABIN967389, ABIN968537

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 250 µg/mL

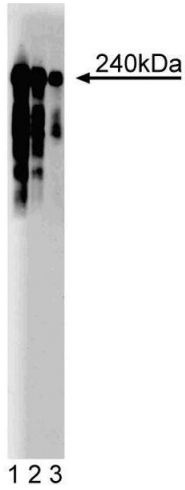
Buffer: Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.

Handling

Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store undiluted at -20°C.

Publications

- Product cited in:
- Furuyashiki, Fujisawa, Fujita, Madaule, Uchino, Mishina, Bito, Narumiya: "Citron, a Rho-target, interacts with PSD-95/SAP-90 at glutamatergic synapses in the thalamus." in: **The Journal of neuroscience : the official journal of the Society for Neuroscience**, Vol. 19, Issue 1, pp. 109-18 , (1999) ([PubMed](#)).
- Zhang, Vazquez, Apperson, Kennedy: "Citron binds to PSD-95 at glutamatergic synapses on inhibitory neurons in the hippocampus." in: **The Journal of neuroscience : the official journal of the Society for Neuroscience**, Vol. 19, Issue 1, pp. 96-108, (1999) ([PubMed](#)).
- Di Cunto, Calautti, Hsiao, Ong, Topley, Turco, Dotto: "Citron rho-interacting kinase, a novel tissue-specific ser/thr kinase encompassing the Rho-Rac-binding protein Citron." in: **The Journal of biological chemistry**, Vol. 273, Issue 45, pp. 29706-11, (1998) ([PubMed](#)).
- Madaule, Eda, Watanabe, Fujisawa, Matsuoka, Bito, Ishizaki, Narumiya: "Role of citron kinase as a target of the small GTPase Rho in cytokinesis." in: **Nature**, Vol. 394, Issue 6692, pp. 491-4, (1998) ([PubMed](#)).



Western Blotting

Image 1. Western blot analysis of CRIK on Rat PC12 cell lysate (ATCC CRL-1721). Lane 1: 1:500, lane 2: 1:1000, lane 3: 1:2000 dilution of anti-CRIK.



Western Blotting

Image 2. Western blot analysis of CRIK on Human Jurkat cell lysate (ATCC TIB-152). Lane 1: 1:250, lane 2: 1:500, lane 3: 1:1000 dilution of anti-CRIK (5 min exposure).

Image 3.

