

Anti-Act1 / CIKS (CT) Polyclonal Antibody

CATALOG No.: PX209A SIZE: 100 µg
PX209B SIZE: 0.5 mg

BACKGROUND:

Nuclear factor kappa B (NF-κB) is a ubiquitous transcription factor and an essential mediator of gene expression during activation of immune and inflammatory responses. NF-κB mediates the expression of a great variety of genes in response to extracellular stimuli. NF-κB associates with IκB proteins in the cell cytoplasm, which inhibit NF-κB activity. IκB is phosphorylated by IκB kinase (IKK) complex that contains IKKα, IKKβ, and IKKγ. A novel molecule that associates with and activates IKK was recently identified and designated CIKS (for connection to IKK and SAPK/JNK) and Act1 (for NF-κB activator 1) (1,2). CIKS directly interacts with IKKγ. CIKS/Act1 also activates activating transcription factor (ATF) and activator protein 1 (AP-1) through Jun kinase (JNK). These results indicate that CIKS/Act1 is involved in the inflammation and stress responses. CIKS/Act1 is ubiquitously expressed in human tissues.

SOURCE:

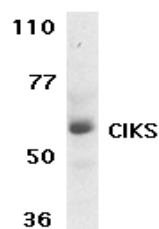
Rabbit anti-CIKS polyclonal antibody was raised against a synthetic peptide (REEEYVAPPRGRLPT) corresponding to amino acids 554 to 568 of human CIKS (1,2).

APPLICATION:

This antibody can be used for detection of CIKS by Western blot at 0.5 to 1 µg/ml. Human placenta tissue lysate can be used as a positive control. A band at approximately 63 kDa can be detected.

STORAGE:

It is supplied as immunoaffinity purified IgG, 100 µg in 200 µl of PBS containing 0.02% sodium azide. Store at 4°C, stable for one year.



Western blot analysis of CIKS expression in human placenta tissue lysate with anti-CIKS (CT) at 1 µg /ml.

RELATED PRODUCTS:

Blocking peptide, 50 µg at 200 µg/ml, is available for competition studies.

Human placenta tissue lysate, 100 µg at 2 mg/ml, is available for positive control.

REFERENCES:

1. Leonardi A, Chariot A, Claudio E, Cunningham K, Siebenlist U. CIKS, a connection to Iκappa B kinase and stress-activated protein kinase. *Proc Natl Acad Sci USA*. 2000;97(19):10494-9.
2. Li X, Commane M, Nie H, Hua X, Chatterjee-Kishore M, Wald D, Haag M, Stark GR. Act1, an NF-kappa B activating protein. *Proc Natl Acad Sci USA*. 2000;97(19):10489-93.

CAUTION: NOT FOR USE IN HUMANS. FOR RESEARCH PURPOSES ONLY.



Cell Sciences, Inc.
480 Neponset Street
Bldg 12A
Canton, MA 02021

Toll Free: 888-769-1246
Phone: 781-828-0610
Fax: 781-828-0542

E-mail: info@cellsciences.com
Web Site: www.cellsciences.com

cellsciences.com



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