



## Anti-ClKS/ACT1 (CT), rabbit polyclonal

**Catalog Number:** 905-252

**Quantity:** 100 µg

**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 ClKS (for connection to IKK and SAPK/JNK) and Act1 (for NF-κB activator 1) (1,2). ClKS directly interacts with IKKγ. ClKS/Act1 also activates activating transcription factor (ATF) and activator protein 1 (AP-1) through Jun kinase (JNK). These results indicate that ClKS/Act1 is involved in the inflammation and stress responses. ClKS/Act1 is ubiquitously expressed in human tissues.

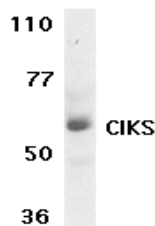
**Source:** Rabbit anti-ClKS polyclonal antibody was raised against a synthetic peptide (REEEYVAPPRGPLPT) corresponding to amino acids 554 to 568 of human ClKS (1,2).

**Purification:** Immunoaffinity Purified

**Form:** In PBS containing 0.02% sodium azide.

**Stability:** Stable for one year when stored at 4°C.

**Application:** This antibody can be used for detection of ClKS 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. For research use only.



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

- References:**
1. Leonardi A, Chariot A, Claudio E, Cunningham K, Siebenlist U. ClKS, 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.

**For Research Use Only; Not for Therapeutic or Diagnostic Use.**