



## Product Information

### Anti-CIKS/Act1, N-Terminal

Developed in Rabbit  
Affinity Isolated Antibody

Product Number **C 8112**

#### Product Description

Anti-CIKS/Act1, N-terminal is developed in rabbit using a synthetic peptide (PPQLQETRMNRSIP) corresponding to amino acids 2-15 of human CIKS<sup>1,2</sup> as immunogen. The antibody is purified by immunoaffinity chromatography.

Anti- CIKS/Act1, N-terminal recognizes human CIKS/Act1 (approximately 63 kDa) by immunoblotting.

The transcription factor NF- $\kappa$ B is a mediator of gene expression during activation of immune and inflammatory responses. In the cell cytoplasm, NF- $\kappa$ B associates with I $\kappa$ B proteins, which inhibit NF- $\kappa$ B activity. I $\kappa$ B is phosphorylated by I $\kappa$ B kinase (IKK) complex that contains IKK $\alpha$ , IKK $\beta$ , and IKK $\gamma$ .

CIKS (connection to IKK and SAPK/JNK), also designated Act1 (NF- $\kappa$ B activator 1), is a novel molecule that associates with and activates IKK.<sup>1,2</sup> CIKS directly interacts with IKK $\gamma$ . CIKS also activates ATF (activating transcription factor) and AP-1 (activator protein-1) through Jun kinase (JNK) indicating that CIKS/Act1 is involved in inflammation and stress responses. CIKS/Act1 is ubiquitously expressed in human tissues.

#### Reagent

Anti- CIKS/Act1, N-terminal is supplied as approximately 0.5 mg/ml of antibody in phosphate buffered saline containing 0.02% sodium azide.

#### Precautions and Disclaimer

Due to the sodium azide content, a material safety data sheet (MSDS) has been sent to the attention of the safety officer at your institution. Consult the MSDS for information regarding hazards and safe handling practices.

#### Storage/Stability

For continuous use, store at 2-8 °C for up to one month. For extended storage, freeze in working aliquots. Repeated freezing and thawing is not recommended. Do not store in a "frost-free" freezer. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use. Working dilution samples should be discarded if not used within 12 hours.

#### Product Profile

For immunoblotting, the recommended working antibody concentration is 0.5-1  $\mu$ g/ml using human placenta tissue lysate.

Note: In order to obtain the best results and assay sensitivities in various techniques and preparations, we recommend determining optimal working dilutions by titration.

#### References

1. Leonardi, a., et al., CIKS, a connection to I $\kappa$ B kinase and stress-activated protein kinase. Proc. Natl. Acad. Sci. USA, **97**, 10494-10499 (2000).
2. Li, X., et al., Act1, an NF- $\kappa$ B activating protein. Proc. Natl. Acad. Sci. USA, **97**, 10489-10493 (2000).

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