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# JIK (TAOK3) Antibody (C-term)

**Purified Rabbit Polyclonal Antibody (Pab)**
**Catalog # AP7012b**

## Specification

### JIK (TAOK3) Antibody (C-term) - Product Information

| | |
|---|---|
| Application | **WB, IHC-P,E** |
| Primary Accession | Q9H2K8 |
| Other Accession | Q6DD27, Q53UA7, Q8BYC6, Q9I9E0 |
| Reactivity | **Human** |
| Predicted | **Chicken, Mouse, Rat, Xenopus** |
| Host | **Rabbit** |
| Clonality | **Polyclonal** |
| Isotype | **Rabbit IgG** |
| Calculated MW | **105406** |
| Antigen Region | **671-700** |

### JIK (TAOK3) Antibody (C-term) - Additional Information

**Gene ID** 51347

**Other Names**
Serine/threonine-protein kinase TAO3, Cutaneous T-cell lymphoma-associated antigen HD-CL-09, CTCL-associated antigen HD-CL-09, Dendritic cell-derived protein kinase, JNK/SAPK-inhibitory kinase, Jun kinase-inhibitory kinase, Kinase from chicken homolog A, hKFC-A, Thousand and one amino acid protein 3, TAOK3, DPK, JIK, KDS, MAP3K18

**Target/Specificity**
This JIK (TAOK3) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 671-700 amino acids from the C-terminal region of human JIK (TAOK3).

**Dilution**
WB~~1:1000
IHC-P~~1:10~50

**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**
JIK (TAOK3) Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

### JIK (TAOK3) Antibody (C-term) - Protein Information

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**Name** TAOK3

**Synonyms** DPK, JIK, KDS, MAP3K18

**Function** Serine/threonine-protein kinase that acts as a regulator of the p38/MAPK14 stress-activated MAPK cascade and of the MAPK8/JNK cascade. Acts as an activator of the p38/MAPK14 stress-activated MAPK cascade. In response to DNA damage, involved in the G2/M transition DNA damage checkpoint by activating the p38/MAPK14 stress-activated MAPK cascade, probably by mediating phosphorylation of upstream MAP2K3 and MAP2K6 kinases. Inhibits basal activity of MAPK8/JNK cascade and diminishes its activation in response epidermal growth factor (EGF).

**Cellular Location**
Cytoplasm. Cell membrane; Peripheral membrane protein. Note=Also localized to the peripheral cell membrane

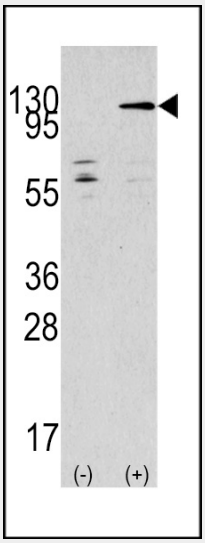
**Tissue Location**
Ubiquitously expressed at a low level, and highly expressed in peripheral blood leukocytes (PBLs), thymus, spleen, kidney, skeletal muscle, heart and liver.

## JIK (TAOK3) Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

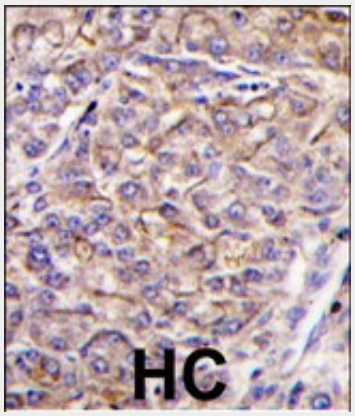
## JIK (TAOK3) Antibody (C-term) - Images




Western blot analysis of TAOK3 (arrow) using rabbit polyclonal TAOK3 Antibody (C-term)(Cat.#AP7012b). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently

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transfected with the TAOK3 gene (Lane 2) (Origene Technologies).




Formalin-fixed and paraffin-embedded human hepatocarcinoma tissue reacted with TAOK3 antibody (C-term)(Cat.#AP7012b), 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.

**JIK (TAOK3) Antibody (C-term) - Background**

TAOK3 is negatively regulated by epidermal growth factor (EGF) and Inhibits the basal activity of Jun kinase. When TAOK3 is overexpressed, it may activate ERK1/ERK2 and JNK/SAPK.

**JIK (TAOK3) Antibody (C-term) - References**

Hartmann,T.B.,Br. J. Dermatol. 150 (2), 252-258 (2004)
Yustein,J.T.,Oncogene 22 (40), 6129-6141 (2003)
Yoneda,T.,J. Biol. Chem. 276 (17), 13935-13940 (2001)
Zhang,W.,Biochem. Biophys. Res. Commun. 274 (3), 872-879 (2000)