

Product datasheet

Anti-NAK/TBK1 antibody ab235253

2 Images

Overview

Product name	Anti-NAK/TBK1 antibody
Description	Rabbit polyclonal to NAK/TBK1
Host species	Rabbit
Tested applications	Suitable for: ICC/IF, WB
Species reactivity	Reacts with: Mouse, Human
Immunogen	Synthetic peptide. This information is considered to be commercially sensitive.
Positive control	WB: NIH/3T3 cell lysate. ICC/IF: HeLa cells.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.01% Sodium azide Constituent: PBS
Purity	Affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab235253** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		Use a concentration of 15 µg/ml.
WB		1/1000. Predicted molecular weight: 84 kDa.

Target

Function

Serine/threonine protein involved in the signaling cascade converging to the activation of the transcription factor NF-kappa-B. May function as an IKK kinase, playing an essential role in the transcription of a subset of TNF-alpha-induced genes. Also mediates production of RANTES/CCL5 and interferon-beta/IFNB1. Has a pivotal role in the innate immune response. Phosphorylates Borna disease virus (BDV) P protein. Phosphorylates and activates IRF3 and IRF7 and allows their nuclear localization. This leads to production of alpha/beta interferons and the development of a cellular antiviral state. It also seems to be a central factor in the induction of the antiviral interferon response. Inhibition of its interaction with IRF3, due to HCV NS3 binding or BDV P protein seems to be one mechanism of inhibition of the innate immune responses of hepatitis C virus (HCV) infection or Borna disease virus infection respectively.

Tissue specificity

Ubiquitous with higher expression in testis.

Sequence similarities

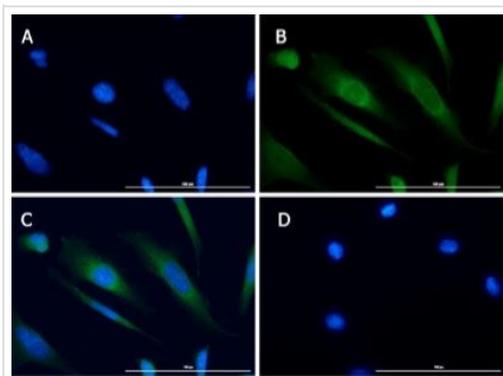
Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. I-kappa-B kinase subfamily.

Contains 1 protein kinase domain.

Cellular localization

Cytoplasm.

Images



Immunocytochemistry/ Immunofluorescence - Anti-NAK/TBK1 antibody (ab235253)

4% formaldehyde-fixed, 0.3% Triton X-100

permeabilized HeLa (human epithelial cell line from cervix adenocarcinoma) cells stained for NAK/TBK1 (green) using ab235253 at 15 µg/ml overnight at 4°C, in ICC/IF, followed by Donkey Anti-Rabbit IgG DyLight™ 488 Conjugated Preadsorbed at 5 µg/ml 1 hour at room temperature. Counter-stained with DAPI.

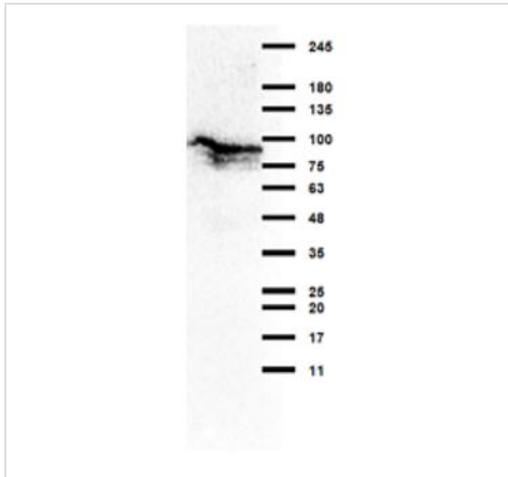
(A) DAPI

(B) ab235253 + sec DyLight488

(C) Merge A+B

(D) Secondary only

Expected localization: cytoplasm.



Western blot - Anti-NAK/TBK1 antibody (ab235253)

Anti-NAK/TBK1 antibody (ab235253) at 1/1000 dilution + NIH/3T3
(mouse embryo fibroblast cell line) cell lysate

Secondary

Rabbit IgG HRP at 1/70000 dilution

Predicted band size: 84 kDa

Exposure time: 30 seconds

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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