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Datasheet for 600-401-GF5

ZIPK Antibody

Overview

Description:	Anti-ZIPK (RABBIT) Antibody - 600-401-GF5
Item No.:	600-401-GF5
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	Apoptosis is mediated by death domain containing adapter molecules and a caspase family of proteases. Certain serine/threonine protein kinases, such as ASK-1 and RIP, are mediators of apoptosis. A novel serine/threonine kinase that mediates apoptosis was recently identified and designated ZIP kinase. ZIP kinase contains an N-terminal kinase domain and a C-terminal leucine zipper structure and binds to ATF4 that is a member of ATF/CREB family. ZIP kinase has high sequence homology to DAP kinase (death-associated protein kinase), which is a mediator of apoptosis induced by gamma interferon. Overexpression of ZIP kinase induces apoptosis. ZIP and DAP kinases represent a novel kinase family, which mediates apoptosis through their catalytic activities. The messenger RNA was ubiquitously expressed in various tissues.
Synonyms:	ZIPK Antibody, ZIP, ZIPK, Death-associated protein kinase 3, DAP-like kinase, DAP kinase 3, DAP-like kinase, Dlk, MYPT1 kinase, Zipper-interacting protein kinase, ZIP-kinase, DAPK3
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	DAPK3
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-ZIP kinase antibody was prepared from whole rabbit serum produced by repeated immunizations with a peptide corresponding to amino acids near the internal region of human ZIP kinase.
Purity/Specificity:	Anti-ZIPK Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with ZIPK from other sources has not been determined.
Relevant Links:	• UniProtKB - O43293 • GeneID - 1613 • NCBI - NP_001339.1

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-ZIPK Antibody has been tested for use in ELISA, Western Blotting, Immunocytochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 53 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000
IF:	10 µg/mL
WB:	1 µg/mL

Formulation

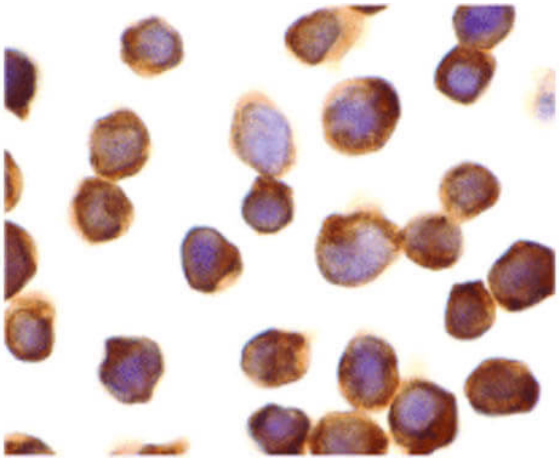
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

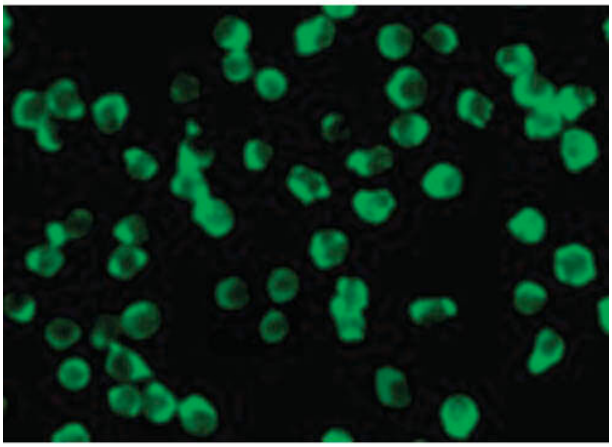
Shipping Condition:	Dry Ice

Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

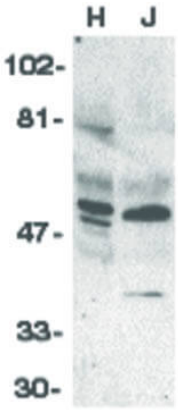
Images



Immunocytochemistry
Immunocytochemistry of ZIPK antibody. Cells: Jurkat. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: ZIPK antibody at 10 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: ZIPK is membranal. Staining: ZIPK as precipitated brown signal with hematoxylin blue nuclear counterstain.



Immunofluorescence Microscopy
Immunofluorescence Microscopy of ZIPK antibody. Tissue: Jurkat cells. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: ZIPK antibody at 10 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: ZIPK is membranal. Staining: ZIPK as green fluorescent signal.



Western Blot

Western Blot of ZIPK antibody. Lane 1: HeLa whole cell lysate. Lane 2: Jurkat whole cell lysate. Load: 35 µg per lane. Primary antibody: ZIPK antibody at 1 µg/mL for overnight at 4°C. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 63.4 kDa, 55 kDa for ZIPK. Other band(s): ZIPK splice variants and isoforms.

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