

For Research Use Only

MLK3 Polyclonal antibody

Catalog Number: 11996-1-AP

Featured Product

8 Publications



Basic Information

Catalog Number:

11996-1-AP

Concentration:

400 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG2636

GenBank Accession Number:

BC011263

GeneID (NCBI):

4296

UNIPROT ID:

Q16584

Full Name:

mitogen-activated protein kinase
kinase kinase 11

Calculated MW:

847 aa, 93 kDa

Observed MW:

93 and 65 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:1000

IHC 1:50-1:500

IF/ICC 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Cited Applications:

WB, IF, IP, ColP

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat

**Note-IHC: suggested antigen retrieval with
TE buffer pH 9.0; (*) Alternatively, antigen
retrieval may be performed with citrate
buffer pH 6.0**

Positive Controls:

WB : L02 cells, HEK-293 cells, NIH/3T3 cells, C6 cells

IHC : human colon cancer tissue,

IF/ICC : NIH/3T3 cells, HeLa cells

Background Information

MLK3 (Mixed lineage kinase 3) is also named as MAP3K11 and activates the JUN N-terminal pathway. It influences microtubule organization during the cell cycle. Mouse epididymal sperm contained an 60 kDa variant of MLK3, which may have been a result of proteolytic cleavage of the longer 93 kDa form seen in many tissues and the 50 kDa band is not known and not infrequently observed(PMID:17377140). Exposure of cells to LPS resulted in an increase in MLK3 dimers(of approximately 220 kDa), whereas inactivation of GSK-3b by TWS119 blocked MLK3 dimerization(PMID:21194439).

Notable Publications

Author	Pubmed ID	Journal	Application
Jie Huang	33785860	Acta Pharmacol Sin	WB
Junyan Wang	33798659	J Ethnopharmacol	WB
Xiangjun Chen	35247112	J Mol Histol	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

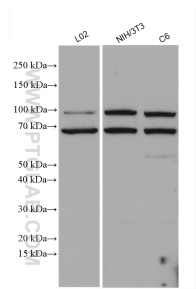
T: 4006900926

E: Proteintech-CN@ptglab.com

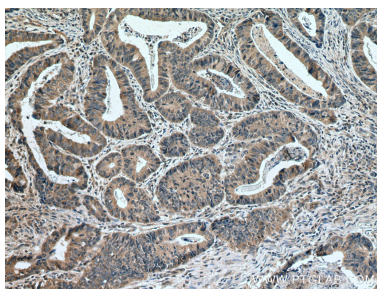
W: ptgcn.com

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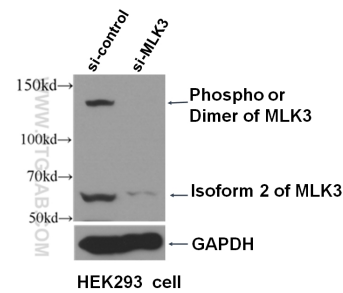
Selected Validation Data



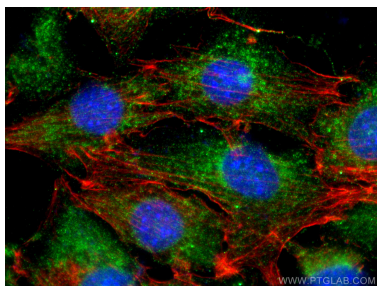
Various lysates were subjected to SDS PAGE followed by western blot with 11996-1-AP (MLK3 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 11996-1-AP (MLK3 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



WB result of MLK3 antibody (11996-1-AP, 1:500) with si-Control and si-MLK3 transfected HEK293 cells.



Immunofluorescent analysis of (-20°C Ethanol) fixed NIH/3T3 cells using MLK3 antibody (11996-1-AP) at dilution of 1:100 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).