

For Research Use Only

# MLK3 Polyclonal antibody

Catalog Number: 11996-1-AP

Featured Product

7 Publications



## Basic Information

<b>Catalog Number:</b> 11996-1-AP	<b>GenBank Accession Number:</b> BC011263	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul, Concentration: 400 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 4296	<b>Recommended Dilutions:</b> WB 1:500-1:1000 IHC 1:50-1:500 IF 1:50-1:500
<b>Source:</b> Rabbit	<b>Full Name:</b> mitogen-activated protein kinase kinase kinase 11	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 847 aa, 93 kDa	
<b>Immunogen Catalog Number:</b> AG2636	<b>Observed MW:</b> 93 and 65 kDa	

## Applications

### Tested Applications:

IF, IHC, WB, ELISA

### Cited Applications:

IF, IP, WB

### 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: 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

\*\*\* 20ul sizes contain 0.1% BSA

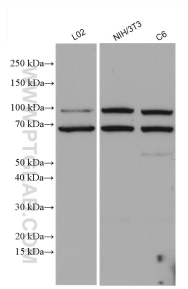
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

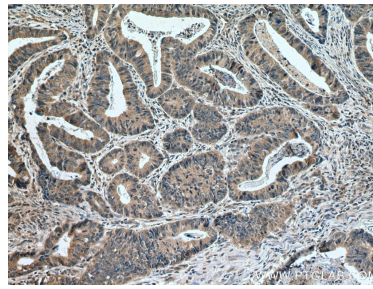
E: proteintech@ptglab.com  
W: ptglab.com

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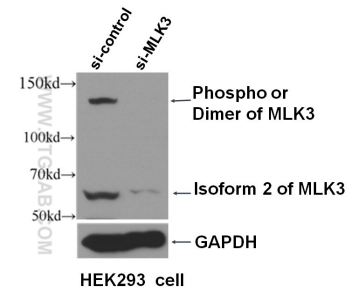
## Selected Validation Data



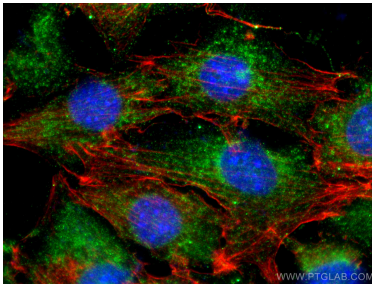
Various lysates were subjected to SDS PAGE followed by western blot with 11996-1-AP (MLK3 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



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 AffiniPure Goat Anti-Rabbit IgG(H+L).