

For Research Use Only

MLK3 Polyclonal antibody

Catalog Number: 11996-1-AP

Featured Product

7 Publications



Basic Information

Catalog Number:

11996-1-AP

Size:

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 1:50-1:500

Applications

Tested Applications:

IF/ICC, IHC, WB, ELISA

Cited Applications:

WB, IP, IF

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-3 β 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:

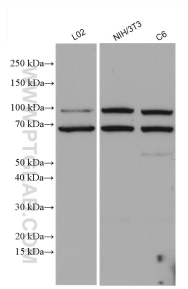
T: 4006900926

E: Proteintech-CN@ptglab.com

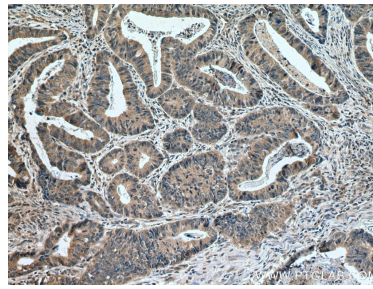
W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

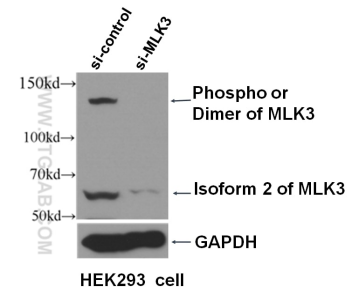
Selected Validation Data



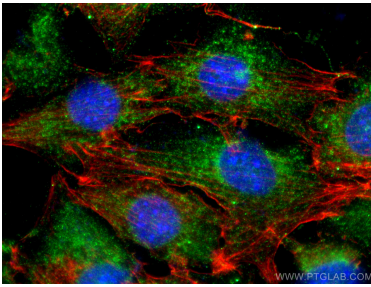
Various lysates were subjected to SDS PAGE followed by western blot with 11996-1-AP (MLK3 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



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).