Basic Information

- **Catalog Number:** 11996-1-AP
- **Size:** 150μl, Concentration: 400 μg/ml by Nanodrop and 240 μg/ml by Bradford method using BSA as the standard.
- **Source:** Rabbit
- **Isotype:** IgG
- **Immunogen Catalog Number:** AG2636
- **GenBank Accession Number:** BC011263
- **Gene ID (NCBI):** 4296
- **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, 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.

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

<table>
<thead>
<tr>
<th>Author</th>
<th>Pubmed ID</th>
<th>Journal</th>
<th>Application</th>
<th>Application</th>
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<tbody>
<tr>
<td>Jie Huang</td>
<td>33785860</td>
<td>Acta Pharmacol Sin</td>
<td>WB</td>
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<td>Junyan Wang</td>
<td>33798659</td>
<td>J Ethnopharmacol</td>
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<td>Mingli Yin</td>
<td>30866680</td>
<td>Int J Mol Med</td>
<td>WB</td>
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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**
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).

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).

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