For Research Use Only

Phospho-MEK1 (Thr386) Monoclonal antibody, PBS Only (Detector)

www.ptglab.com

Purification Method:

Protein G purification

CloneNo.:

1G6A2

Catalog Number: 68015-1-PBS

Basic Information

Catalog Number:

68015-1-PBS

Size:

1000 µg/ml Source:

Mouse Isotype: lgG1

GenBank Accession Number:

BC139729 GeneID (NCBI):

5604

ENSEMBL Gene ID: ENSG00000169032

UNIPROT ID: Q02750

Full Name:

mitogen-activated protein kinase

kinase 1 Calculated MW:

43 kDa

Observed MW:

40-50 kDa

Applications

Tested Applications:

WB, IF/ICC, Cytometric bead array, Indirect ELISA

Species Specificity:

human, mouse

Background Information

MAP2K1 encodes MAPK1, also known as MEK1. MEK1 variants can enhance MEK1 expression and ERK1 $phosphory lation\ that\ together\ lead\ to\ continuous\ activation\ of\ MEK/ERK\ signaling\ pathway.\ MEK1\ bind\ directly\ to$ ERK2 through a region in the N terminus of MEK. In addition, a proline-rich (PR) regulatory sequence in MEK is also involved in MEK-ERK association and signal propagation. The coupling between MEK1 and ERK2 is enhanced through phosphorylation on S298 in the MEK1 PR region, whereas phosphorylation on MEK1 T292 releases the complex. MEK1 T292 is a substrate of ERK2, but the site is also phosphorylated at a basal level when ERK2 is inhibited, phosphorylation site, and it is not a substrate of PAK1. (PMID: 31972311, PMID: 17928366, PMID: 22177953)

Storage

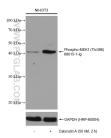
Storage:

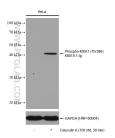
Store at -80°C.

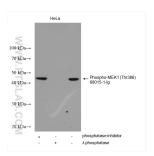
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

PBS Only

Selected Validation Data



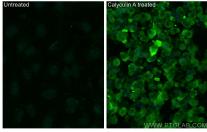


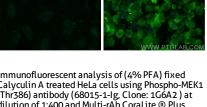


Non-treated NIH/3T3 cells and Calyculin A treated NIH/3T3 cells were subjected to SDS PAGE followed by western blot with 68015-1-lg (Phospho-MEK1 (Thr386) antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with GAPDH antibody as loading control. This data was developed using the same antibody clone with 68015-1-PBS in a different storage buffer formulation.

Non-treated HeLa cells and Calyculin A treated HeLa cells were subjected to SDS PAGE followed by western blot with 68015-1-lg (Phospho-MEK1 (Thr386) antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with GAPDH antibody as loading control. This data was developed using the same artibody clone with 68015-1.PS in a the same antibody clone with 68015-1-PBS in a different storage buffer formulation.

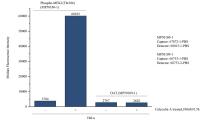
Non-treated HeLa cells, phosphatase inhibitor reated and λ phosphatase treated HeLa cells were subjected to SDS PAGE followed by western blot with 68015-1-lg (Phospho-MEK1 (Thr386) antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 68015-1-PBS in a different storage buffer formulation.





developed using the same antibody clone with 68015-1-PBS in a different storage buffer

Immunofluorescent analysis of (4% PFA) fixed Calyculin A treated HeLa cells using Phospho-MEK1 (Thr386) antibody (68015-1-Ig, Clone: 1G6A2) at dilution of 1:400 and Multi-rAb CoraLite ® Plus 488-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (RGAM002). This data was



Cytometric bead array in cell lysate using MP50180-1, Phospho-MEK1 (Thr386) Monoclonal Matched Antibody Pair, PBS Only. Capture antibody: 67872-1-PBS. Detection antibody: 68015-1-PBS. Cell lysate: Non-treated HeLa and Calyculin A treated HeLa (30 µ g/well). Non-related target OAT Monoclonal Matched Antibody Pair (MP50109-1P) was served as control.