

TAOK1 Blocking Peptide
Catalog # PBV10350b**Specification**

TAOK1 Blocking Peptide - Product Information

Primary Accession	O88664
Other Accession	EDM05292
Gene ID	286993
Calculated MW	115952

TAOK1 Blocking Peptide - Additional Information**Gene ID** 286993**Application & Usage**

The peptide is used for blocking the antibody activity of TAOK1. It usually blocks the antibody activity completely in Western blot analysis by incubating the peptide with equal volume of antibody for 30-60 minutes at 37°C.

Other Names

Serine/threonine-protein kinase TAO1, 2.7.11.1, Thousand and one amino acid protein 1, Taok1, Tao1

Target/Specificity

TAOK1

Formulation

50 µg (0.5 mg/ml) in phosphate buffered saline (PBS), pH 7.2, containing 50% glycerol, 1% BSA and 0.02% thimerosal.

Reconstitution & Storage

-20 °C

Background Descriptions**Precautions**

TAOK1 Blocking Peptide is for research use only and not for use in diagnostic or therapeutic procedures.

TAOK1 Blocking Peptide - Protein Information**Name** Taok1**Synonyms** Tao1**Function**

Serine/threonine-protein kinase involved in various processes such as p38/MAPK14 stress-activated MAPK cascade, DNA damage response and regulation of cytoskeleton stability. Phosphorylates MAP2K3, MAP2K6 and MARK2. Acts as an activator of the p38/MAPK14 stress-activated MAPK cascade by mediating phosphorylation and subsequent activation of the upstream MAP2K3 and MAP2K6 kinases. Involved in G-protein coupled receptor signaling to p38/MAPK14. In response to DNA damage, involved in the G2/M transition DNA damage checkpoint by activating the p38/MAPK14 stress-activated MAPK cascade, probably by mediating phosphorylation of MAP2K3 and MAP2K6. Acts as a regulator of cytoskeleton stability by phosphorylating 'Thr-208' of MARK2, leading to activate MARK2 kinase activity and subsequent phosphorylation and detachment of MAPT/TAU from microtubules. Also acts as a regulator of apoptosis: regulates apoptotic morphological changes, including cell contraction, membrane blebbing and apoptotic bodies formation via activation of the MAPK8/JNK cascade. During fetal development, it plays an essential role in the regulation of neuronal differentiation and migration to the cortical plate (By similarity).

Cellular Location

Cytoplasm.

TAOK1 Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

TAOK1 Blocking Peptide - Images