

**Mouse Taok2 Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP14470c****Specification****Mouse Taok2 Antibody (Center) Blocking Peptide**  
**- Product Information**Primary Accession [Q6ZQ29](#)**Mouse Taok2 Antibody (Center) Blocking Peptide**  
**- Additional Information****Gene ID** 381921**Other Names**Serine/threonine-protein kinase TAO2,  
Thousand and one amino acid protein 2,  
Taok2, Kiaa0881**Format**Peptides are lyophilized in a solid powder  
format. Peptides can be reconstituted in  
solution using the appropriate buffer as  
needed.**Storage**Maintain refrigerated at 2-8°C for up to 6  
months. For long term storage store at  
-20°C.**Precautions**This product is for research use only. Not  
for use in diagnostic or therapeutic  
procedures.**Mouse Taok2 Antibody (Center) Blocking Peptide**  
**- Protein Information****Name** Taok2**Synonyms** Kiaa0881**Function**Serine/threonine-protein kinase involved in  
different processes such as membrane  
blebbing and apoptotic bodies formation  
DNA damage response and MAPK14/p38  
MAPK stress-activated MAPK cascade.  
Phosphorylates itself, MBP, activated  
MAPK8, MAP2K3, MAP2K6 and tubulins.**Mouse Taok2 Antibody (Center) Blocking**  
**Peptide - Background**Taok2 may play a role in apoptotic  
morphological changes. May affect microtubule  
organization and stability. May play a role in  
the osmotic stress-MAPK8 pathway. Activates  
the JNK MAP kinase pathway through the  
specific activation of the upstream MKK3 and  
MKK6 kinases. Prevents MAP3K7-mediated  
activation of IKKA, and thus NF-kappa-B  
activation. Phosphorylates itself, MBP,  
activated MAPK8 and tubulins (By similarity).**Mouse Taok2 Antibody (Center) Blocking**  
**Peptide - References**Blackshaw, S., et al. PLoS Biol. 2 (9), E247  
(2004) :Thuret, S., et al. Mol. Cell. Neurosci.  
25(3):394-405(2004)Zambrowicz, B.P., et al.  
Proc. Natl. Acad. Sci. U.S.A.  
100(24):14109-14114(2003)Okazaki, N., et al.  
DNA Res. 10(4):167-180(2003)

Activates the MAPK14/p38 MAPK signaling pathway through the specific activation and phosphorylation of the upstream MAP2K3 and MAP2K6 kinases. 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 upstream MAP2K3 and MAP2K6 kinases. May affect microtubule organization and stability. May play a role in the osmotic stress-MAPK8 pathway. Prevents MAP3K7-mediated activation of CHUK, and thus NF-kappa-B activation. Isoform 2, but not isoform 1, is required for PCDH8 endocytosis. Following homophilic interactions between PCDH8 extracellular domains, isoform 2 phosphorylates and activates MAPK14/p38 MAPK which in turn phosphorylates isoform 2. This process leads to PCDH8 endocytosis and CDH2 cointernalization. Both isoforms are involved in MAPK14/p38 MAPK activation (By similarity).

**Cellular Location**

Cytoplasmic vesicle membrane; Multi-pass membrane protein. Cytoplasm, cytoskeleton. Note=Found to be perinuclear and localized to vesicular compartment.

**Mouse Taok2 Antibody (Center) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)