

**Mouse Wee2 Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP14472c****Specification**

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**Mouse Wee2 Antibody (Center) Blocking Peptide - Product Information**Primary Accession [Q66JT0](#)**Mouse Wee2 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 381759**Other Names**

Wee1-like protein kinase 2, Wee1-like protein kinase 1B, Wee1B kinase, mWee1B, Wee2, Wee1b

**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 Wee2 Antibody (Center) Blocking Peptide - Protein Information****Name** Wee2**Synonyms** Wee1b**Function**

Oocyte-specific protein tyrosine kinase that phosphorylates and inhibits CDK1 and acts as a key regulator of meiosis during both prophase I and metaphase II. Required to maintain meiotic arrest in oocytes during the germinal vesicle (GV) stage, a long period of quiescence at dictyate prophase I, by phosphorylating CDK1 at 'Tyr-15', leading to inhibit CDK1 activity and prevent meiotic reentry. Also required for metaphase II exit during egg activation by phosphorylating CDK1 at 'Tyr-15', to ensure exit from meiosis in oocytes and promote pronuclear formation.

**Cellular Location**

Cytoplasm. Nucleus. Note=Localizes mainly in the nucleus. Exported from the nucleus to the cytoplasm before germinal vesicle breakdown (GVBD), allowing meiosis resumption

**Tissue Location**

Ovary-specific..

**Mouse Wee2 Antibody (Center) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**Mouse Wee2 Antibody (Center) Blocking Peptide - Images****Mouse Wee2 Antibody (Center) Blocking Peptide - Background**

Phosphorylates and inhibits CDK1. May act as a negative regulator of entry into mitosis (G2 to M transition).

**Mouse Wee2 Antibody (Center) Blocking Peptide - References**

Oh, J.S., et al. J. Cell Biol. 188(2):199-207(2010) Joshi, S., et al. BMC Dev. Biol. 7, 67 (2007) :Han, S.J., et al. Curr. Biol. 15(18):1670-1676(2005) Nakanishi, M., et al. Genes Cells 5(10):839-847(2000)