

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

Specification

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)