

Mouse Mastl Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP14289c**Specification**

Mouse Mastl Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [Q8C0P0](#)**Mouse Mastl Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 67121**Other Names**

Serine/threonine-protein kinase greatwall, GW, GWL, Microtubule-associated serine/threonine-protein kinase-like, MAST-L, Mastl, Gw, Gwl

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 Mastl Antibody (Center) Blocking Peptide - Protein Information**Name** Mastl**Synonyms** Gw, Gwl**Function**

Serine/threonine kinase that plays a key role in M phase by acting as a regulator of mitosis entry and maintenance. Acts by promoting the inactivation of protein phosphatase 2A (PP2A) during M phase: does not directly inhibit PP2A but acts by mediating phosphorylation and subsequent activation of ARPP19 and ENSA at 'Ser- 62' and 'Ser-67', respectively. ARPP19 and ENSA are phosphatase inhibitors that specifically inhibit the PPP2R2D (PR55-delta) subunit of PP2A. Inactivation of PP2A during M phase is essential to keep cyclin-B1-CDK1 activity high. Following DNA damage, it is also involved in checkpoint recovery by being inhibited (By similarity).

Cellular Location

Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Nucleus. Note=During interphase is mainly nuclear, upon nuclear envelope breakdown localizes at the cytoplasm and during mitosis at the centrosomes.

Mouse Mastl Antibody (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

Mouse Mastl Antibody (Center) Blocking Peptide - Images

Mouse Mastl Antibody (Center) Blocking Peptide - Background

Serine/threonine kinase. Mediates mitotic entry and maintenance. Maintains the correct equilibrium between cyclin B1-CDK1 and protein phosphatase 2A (PP2A) by promoting the inactivation of PP2A. Phosphorylates histone protein in vitro. May be involved in megakaryocyte differentiation (By similarity).

Mouse Mastl Antibody (Center) Blocking Peptide - References

Zambrowicz, B.P., et al. Proc. Natl. Acad. Sci. U.S.A. 100(24):14109-14114(2003)Stryke, D., et al. Nucleic Acids Res. 31(1):278-281(2003)Piao, Y., et al. Genome Res. 11(9):1553-1558(2001)