

Mouse Fer Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP14620b**Specification**

Mouse Fer Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [P70451](#)**Mouse Fer Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 14158**Other Names**

Tyrosine-protein kinase Fer, Proto-oncogene c-Fer, p94-Fer, Fer, Fert2

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 Fer Antibody (C-term) Blocking Peptide - Protein Information**Name** Fer**Synonyms** Fert2**Function**

Tyrosine-protein kinase that acts downstream of cell surface receptors for growth factors and plays a role in the regulation of the actin cytoskeleton, microtubule assembly, lamellipodia formation, cell adhesion, cell migration and chemotaxis. Acts downstream of EGFR, KIT, PDGFRA and PDGFRB. Acts downstream of EGFR to promote activation of NF- kappa-B and cell proliferation. May play a role in the regulation of the mitotic cell cycle. Plays a role in the insulin receptor signaling pathway and in activation of phosphatidylinositol 3-kinase. Acts downstream of the activated FCER1 receptor and plays a role in FCER1 (high affinity immunoglobulin epsilon receptor)-mediated signaling in mast cells. Plays a role in the regulation of mast cell degranulation. Plays a role in leukocyte recruitment and diapedesis in response to bacterial lipopolysaccharide (LPS). Phosphorylates CTTN, CTNND1, PTK2/FAK1, GAB1, PECAM1 and PTPN11. May phosphorylate JUP and PTPN1. Can phosphorylate STAT3 according to PubMed:10878010 and PubMed:19159681, but clearly plays a redundant role in STAT3 phosphorylation. According to PubMed:11134346, cells where wild type FER has been replaced by a kinase-dead mutant show no reduction in STAT3

phosphorylation. Phosphorylates TMF1. Isoform 3 lacks kinase activity.

Cellular Location

Cytoplasm. Cytoplasm, cytoskeleton. Cell membrane; Peripheral membrane protein; Cytoplasmic side. Cell projection. Cell junction. Membrane; Peripheral membrane protein; Cytoplasmic side. Nucleus. Cytoplasm, cell cortex. Note=Detected on microtubules in polarized and motile vascular endothelial cells. Colocalizes with F-actin at the cell cortex. Colocalizes with PECAM1 and CTNND1 at nascent cell-cell contacts (By similarity). Not detected in the nucleus, but detected in the nuclear area surrounding the chromosomes after breakdown of the nuclear envelope during mitosis (PubMed:11339827). {ECO:0000250, ECO:0000269|PubMed:11339827}

Tissue Location

Detected in liver and testis. Isoform 4 is detected only in testis (at protein level). Widely expressed

Mouse Fer Antibody (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

Mouse Fer Antibody (C-term) Blocking Peptide - Images**Mouse Fer Antibody (C-term) Blocking Peptide - Background**

Tyrosine kinase of the non-receptor type. Probably performs an important function, perhaps in regulatory processes such as cell cycle control (By similarity).

Mouse Fer Antibody (C-term) Blocking Peptide - References

Jiang, S.X., et al. J. Biol. Chem. 285(13):9908-9918(2010)Kierszenbaum, A.L., et al. Dev. Dyn. 237(12):3882-3891(2008)Sangrar, W., et al. Mol. Cell. Biol. 27(17):6140-6152(2007)Shapovalova, Z., et al. BMC Dev. Biol. 7, 133 (2007) :El Sayegh, T.Y., et al. Mol. Biol. Cell 16(12):5514-5527(2005)