

LOK Antibody (C-term E707) Blocking Peptide
Synthetic peptide
Catalog # BP7959b**Specification**

LOK Antibody (C-term E707) Blocking Peptide - Product InformationPrimary Accession [O94804](#)**LOK Antibody (C-term E707) Blocking Peptide - Additional Information****Gene ID** 6793**Other Names**

Serine/threonine-protein kinase 10, Lymphocyte-oriented kinase, STK10, LOK

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP7959b](/product/products/AP7959b) was selected from the C-term region of human LOK. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

LOK Antibody (C-term E707) Blocking Peptide - Protein Information**Name** STK10**Synonyms** LOK**Function**

Serine/threonine-protein kinase involved in regulation of lymphocyte migration. Phosphorylates MSN, and possibly PLK1. Involved in regulation of lymphocyte migration by mediating phosphorylation of ERM proteins such as MSN. Acts as a negative regulator of MAP3K1/MEKK1. May also act as a cell cycle regulator by acting as a polo kinase kinase: mediates phosphorylation of PLK1 in vitro; however such data require additional evidences in vivo.

Cellular Location

Cell membrane; Peripheral membrane protein

Tissue Location

Highly expressed in rapidly proliferating tissues (spleen, placenta, and peripheral blood leukocytes). Also expressed in brain, heart, skeletal muscle, colon, thymus, kidney, liver, small intestine and lung.

LOK Antibody (C-term E707) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

LOK Antibody (C-term E707) Blocking Peptide - Images

LOK Antibody (C-term E707) Blocking Peptide - Background

This gene encodes a member of the Ste20 family of serine/threonine protein kinases, and is similar to several known polo-like kinase kinases. The protein can associate with and phosphorylate polo-like kinase 1, and overexpression of a kinase-dead version of the protein interferes with normal cell cycle progression. The kinase can also negatively regulate interleukin 2 expression in T-cells via the mitogen activated protein kinase kinase 1 pathway.

LOK Antibody (C-term E707) Blocking Peptide - References

Kuramochi, S., et al., Immunogenetics 49(5):369-375 (1999).