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LOK Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP7959a

Specification

LOK Antibody (N-term) Blocking Peptide - Product Information

Primary Accession O94804

LOK Antibody (N-term) 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 AP7959a was selected from the N-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 (N-term) 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 (N-term) Blocking Peptide - Protocols

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

- Blocking Peptides

LOK Antibody (N-term) Blocking Peptide - Images

LOK Antibody (N-term) 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 (N-term) Blocking Peptide - References

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