

# LOK Antibody (C-term E707)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP7959b

## Product Information

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<b>Application</b>	WB, IHC-P, E
<b>Primary Accession</b>	<a href="#">O94804</a>
<b>Reactivity</b>	Human
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB3401
<b>Calculated MW</b>	112135
<b>Antigen Region</b>	692-721

## Additional Information

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<b>Gene ID</b>	6793
<b>Other Names</b>	Serine/threonine-protein kinase 10, Lymphocyte-oriented kinase, STK10, LOK
<b>Target/Specificity</b>	This LOK antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 692-721 amino acids from the C-terminal region of human LOK.
<b>Dilution</b>	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
<b>Format</b>	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Precautions</b>	LOK Antibody (C-term E707) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	STK10
<b>Synonyms</b>	LOK
<b>Function</b>	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.

**Background**

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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.

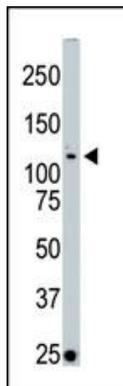
**References**

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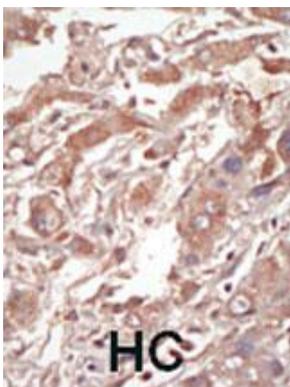
Kuramochi, S., et al., Immunogenetics 49(5):369-375 (1999).

**Images**

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The anti-LOK Pab (Cat. #AP7959b) is used in Western blot to detect LOK in Jurkat cell lysate.



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.