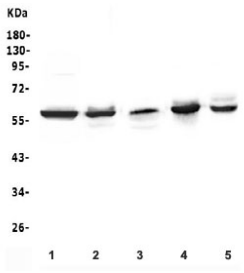
LCK Antibody (R31894)

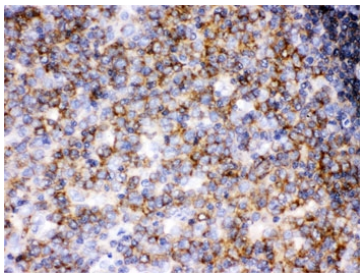
Catalog No.	Formulation	Size
R31894	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

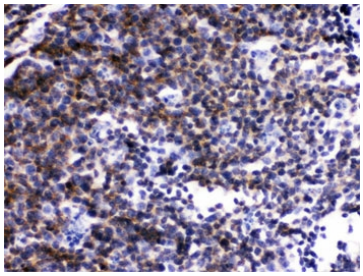
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	P06239
Localization	Cytoplasmic
Applications	Western Blot : 0.1-0.5ug/ml Immunohistochemistry (FFPE) : 0.5-1ug/ml Flow Cytometry : 1-3ug/10^6 cells Immunocytochemistry : 2-4ug/ml
Limitations	This LCK antibody is available for research use only.



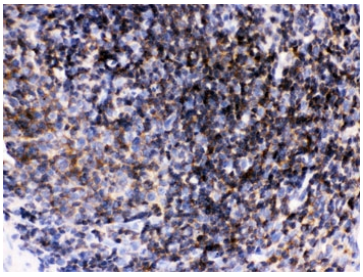
Western blot testing of 1) human Jurkat, 2) rat thymus, 3) rat spleen, 4) mouse thymus and 5) mouse spleen lysate with LCK antibody. Expected/observed molecular weight ~58 kDa.



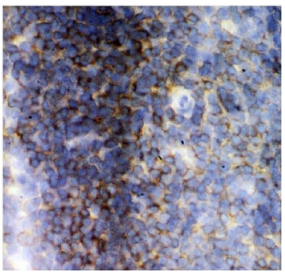
IHC testing of FFPE human tonsil with LCK antibody. HIER: Boil the paraffin sections in pH 6, 10mM citrate buffer for 20 minutes and allow to cool prior to staining.



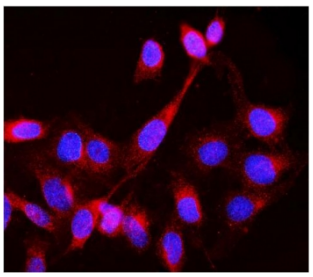
IHC testing of FFPE mouse lymph node with LCK antibody. HIER: Boil the paraffin sections in pH 6, 10mM citrate buffer for 20 minutes and allow to cool prior to staining.



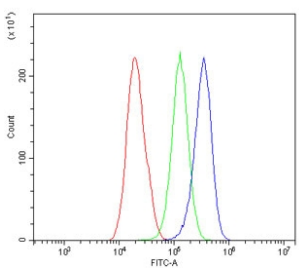
IHC testing of FFPE rat lymph node with LCK antibody. HIER: Boil the paraffin sections in pH 6, 10mM citrate buffer for 20 minutes and allow to cool prior to staining.



IHC staining of frozen mouse spleen tissue with LCK antibody.



IF/ICC staining of FFPE human U-2 OS cells with LCK antibody (clone red) and DAPI nuclear stain (blue). HIER: boil tissue sections in pH6, 10mM citrate buffer, for 20 min and allow to cool before testing.



Flow cytometry testing of human HepG2 cells with LCK antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= LCK antibody.

Description

Lck (or lymphocyte-specific protein tyrosine kinase) is a protein found inside specialized cells of the immune system called lymphocytes. The human LCK gene is mapped to chromosome 1p35-p32. This gene is a member of the Src family of protein tyrosine kinases (PTKs). The encoded protein is a key signaling molecule in the selection and maturation of developing T-cells. It contains N-terminal sites for myristylation and palmitylation, a PTK domain, and SH2 and SH3 domains which are involved in mediating protein-protein interactions with phosphotyrosine-containing and proline-rich motifs, respectively. The protein localizes to the plasma membrane and pericentrosomal vesicles, and binds to cell surface receptors, including CD4 and CD8, and other signaling molecules. Multiple alternatively spliced variants, encoding the same protein, have been described.

Application Notes

Optimal dilution of the LCK antibody should be determined by the researcher.

Immunogen

Amino acids ELYQLMRLCWKERPEDRPTFDYLRSVLEDFFTATEGQYQ of human Lymphocyte-specific protein tyrosine kinase were used as the immunogen for the LCK antibody.

Storage

After reconstitution, the LCK antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.