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Store at -20C
#2984

Lck (D88) XP[®] Rabbit mAb

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W, W-S, IHC-P, IF-IC, FC-FP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 56	Source/Isotype: Rabbit IgG	UniProt ID: #P06239	Entrez-Gene Id: 3932
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Product Usage Information

Application

Western Blotting
Simple Western™
Immunohistochemistry (Paraffin)
Immunofluorescence (Immunocytochemistry)
Flow Cytometry (Fixed/Permeabilized)

Dilution

1:1000
1:10 - 1:50
1:200
1:400 - 1:1600
1:200 - 1:800

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

For a carrier free (BSA and azide free) version of this product see product #19333.

Specificity/Sensitivity

Lck (D88) XP[®] Rabbit mAb detects endogenous levels of total Lck protein. This antibody does not cross-react with other Src family members.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Thr50 of human Lck.

Background

Lck belongs to the Src-like non-receptor tyrosine kinase family with the typical Src family kinase structure: a unique amino terminal domain (Src homology 4 domain, SH4) followed by an SH3 domain, an SH2 domain, a kinase domain (SH1), and a carboxy-terminal negative regulatory domain (1). Lck activity is controlled by the interactions of SH2 and SH3 domains as well as tyrosine phosphorylation status of the activation loop (2,3). Lck is recruited to the T cell receptor (TCR) complex upon stimulation and activates downstream tyrosine kinases to initiate T cell signaling (4). Lck is also found to be involved in the regulation of mitochondrial apoptosis pathways and may be responsible for some anticancer drug induced apoptosis (5,6).

Background References

- Palacios, E.H. and Weiss, A. (2004) *Oncogene* 23, 7990-8000.
- Mustelin, T. and Taskén, K. (2003) *Biochem J* 371, 15-27.
- Gervais, F.G. et al. (1993) *Mol Cell Biol* 13, 7112-21.
- Straus, D.B. and Weiss, A. (1992) *Cell* 70, 585-93.
- Belka, C. et al. (2003) *Oncogene* 22, 176-85.
- Gruber, C. et al. (2004) *Biochem Pharmacol* 67, 1859-72.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **W-S:** Simple Western™ **IHC-P:** Immunohistochemistry (Paraffin) **IF-IC:** Immunofluorescence (Immunocytochemistry) **FC-FP:** Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat

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