

#2984 Store at -20C

Lck (D88) XP® Rabbit mAb



Cell Signaling
TECHNOLOGY®

Orders: 877-616-CELL (2355)
orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, W-S, IHC-P	H	Endogenous	56	Rabbit IgG	#P06239	3932

Product Usage Information

Application

Western Blotting
Simple Western™
Immunohistochemistry (Paraffin)

Dilution

1:1000
1:10 - 1:50
1:200

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

WB: Western Blotting **W-S:** Simple Western™ **IHC-P:** Immunohistochemistry (Paraffin)

Cross-Reactivity Key

H: human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster
X: Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse
GP: Guinea Pig **Rab:** rabbit **All:** all species expected

Trademarks and Patents

Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.
XP is a registered trademark of Cell Signaling Technology, Inc.
All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.

Limited Uses

Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.