

Store at
-20C
#46510**HPK1 (E1C3L) Rabbit mAb**

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

Applications: W, W-S, IP, IHC-Bond, IHC-P, FC-FP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 97	Source/Isotype: Rabbit IgG	UniProt ID: #Q92918	Entrez-Gene Id: 11184
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Product Usage Information**Application**

Western Blotting
Simple Western™
Immunoprecipitation
IHC Leica Bond
Immunohistochemistry (Paraffin)
Flow Cytometry (Fixed/Permeabilized)

Dilution

1:1000
1:10 - 1:50
1:100
1:100 - 1:400
1:50 - 1:200
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 #29833.

Specificity/Sensitivity

HPK1 (E1C3L) Rabbit mAb recognizes endogenous levels of total HPK1 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human HPK1 protein.

Background

Hematopoietic progenitor kinase 1 (HPK1) is a member of the germinal center kinases that is predominantly expressed in hematopoietic cells. HPK1 is a key component linking T or B cell receptors to SAPK/JNK and IkappaB kinase pathways in lymphocytes (1-3). Through its proline-rich motif, HPK1 associates with multiple SH3 domain-containing adaptor proteins, including GRB2, Nck, Crk, SLP-76, and BLNK. Phosphorylation of Tyr379 by Syk is necessary for HPK1 association with BLNK and SLP-76, as well as for HPK1 activity (4,5). Caspase cleavage of HPK1 also modulates the biological function of HPK1 (3,6,7).

Background References

- Liou, J. et al. (2000) *Immunity* 12, 399-408.
- Ling, S. et al. (1999) *Mol. Cell. Biol.* 19, 1359-1368.
- Arnold, R. et al. (2001) *J. Biol. Chem.* 276, 14675-14684.
- Tsuji, S. et al. (2001) *J. Exp. Med.* 194, 529-539.
- Sauer, K. et al. (2001) *J. Biol. Chem.* 276, 45207-45216.
- Chen, Y. et al. (1999) *Oncogene* 18, 7370-7377.
- Schulze-Luehrmann, J. et al. (2002) *Blood* 100, 954-960.

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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **W-S:** Simple Western™ **IP:** Immunoprecipitation **IHC-Bond:** IHC Leica Bond **IHC-P:** Immunohistochemistry (Paraffin) **FC-FP:** Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key

H: Human

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