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#53453**HPK1 (E6D2F) Rabbit mAb**

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<b>Applications:</b> W, W-S	<b>Reactivity:</b> H M	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 97	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #Q92918	<b>Entrez-Gene Id:</b> 11184
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**Product Usage Information****Application**

Western Blotting  
Simple Western™

**Dilution**

1:1000  
1:10 - 1:50

**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.*

**Specificity/Sensitivity**

HPK1 (E6D2F) 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 surrounding Gly741 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**

1. Liou, J. et al. (2000) *Immunity* 12, 399-408.
2. Ling, S. et al. (1999) *Mol. Cell. Biol.* 19, 1359-1368.
3. Arnold, R. et al. (2001) *J. Biol. Chem.* 276, 14675-14684.
4. Tsuji, S. et al. (2001) *J. Exp. Med.* 194, 529-539.
5. Sauer, K. et al. (2001) *J. Biol. Chem.* 276, 45207-45216.
6. Chen, Y. et al. (1999) *Oncogene* 18, 7370-7377.
7. 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 BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

**Applications Key**

**W:** Western Blotting **W-S:** Simple Western™

**Cross-Reactivity Key**

**H:** Human **M:** Mouse

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