

#4472 Store at -20C

## HPK1 Antibody



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<b>Applications:</b> WB, IP	<b>Reactivity:</b> H M	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 97	<b>Source:</b> Rabbit	<b>UniProt ID:</b> #Q92918	<b>Entrez-Gene Id:</b> 11184
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### Product Usage Information

#### Application

Western Blotting  
Immunoprecipitation

#### Dilution

1:1000  
1:50

### Storage

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

### Specificity / Sensitivity

HPK1 Antibody detects endogenous levels of total HPK1. The antibody does not cross-react with other members of the GCK family.

### Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to amino-terminal residues of human HPK1. Antibodies are purified by protein A and peptide affinity chromatography.

### 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

**WB:** Western Blotting **IP:** Immunoprecipitation

### 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

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