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# HPK1 Antibody

Store at -20C  
#4472

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

<b>Applications:</b> W, IP	<b>Reactivity:</b> H M	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 97	<b>Source/Isotype:</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

- 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 BSA, 1X TBS, 0.1% Tween@ 20 at 4°C with gentle shaking, overnight.

## Applications Key

**W:** Western Blotting **IP:** Immunoprecipitation

## Cross-Reactivity Key

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

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