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Phospho-Pyk2 (Tyr402) Antibody



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|--|--|--|-------------------------|-------------------|------------------------|-------------------------|--|
| For Research Use Only. Not for Use in Diagnostic Procedures. | | | | | | | |
| Applications: WB, IP | Reactivity: H M | Sensitivity: Endogenous | MW (kDa): 116 | Source: Rabbit | UniProt ID: #Q14289 | Entrez-Gene Id: 2185 | |
| Product Usage | Ар | plication | | | Dilution | | |
| Information | We | stern Blotting | | | 1:1000 | | |
| | Imr | munoprecipitation | | | 1:100 | | |
| Storage | | Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody. | | | | | |
| Specificity / Sens | Phospho-Pyk2 (Tyr402) Antibody detects endogenous levels of Pyk2 only when phosphoryla 402. This antibody may cross-react with other phospho-tyrosine containing proteins. | | | | | horylated at tyrosine | |
| Species predicte react based on 1 sequence homo | .00% | | | | | | |
| Source / Purifica | to re | Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide correspond to residues surrounding Tyr402 of human Pyk2. Antibodies are purified by protein A and peptide affinity chromatography. | | | | | |
| Background | stru from | Protein tyrosine kinase Pyk2, also called CAKβ, RAFTK and CADTK, is a nonreceptor tyrosine kinase structurally related to focal adhesion kinase (FAK) (1-4). Pyk2 is predominantly expressed in cells derived from hematopoietic lineages and in the central nervous system. Pyk2 is one of the signaling mediators for the G-protein-coupled receptors and MAP kinase signaling pathway. It plays an important role in cell | | | | | |

Background References

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- 2. Lev, S. et al. (1995) Nature 376, 737-745.

spreading and migration (5-7).

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- 3. Sasaki, H. et al. (1995) J. Biol. Chem. 270, 21206-21219. 4. Yu, H. et al. (1996) J. Biol. Chem. 271, 29993-29998.
- 5. Duong, L.T. et al. (2001) J Biol Chem 276, 7484-92.
- 6. Watson, J.M. et al. (2001) J Biol Chem 276, 3536-42.
- 7. Tang, H. et al. (2002) J Biol Chem 277, 5441-7.
- 8. Berg, N.N. and Ostergaard, H.L. (1997) J Immunol 159, 1753-7.
- 9. Ganju, R.K. et al. (1997) J Exp Med 185, 1055-63.
- 10. Katagiri, T. et al. (2000) J Biol Chem 275, 19645-52.

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.

Pyk2 is tyrosine phosphorylated and activated upon ligation of TCR (8,9). Phosphorylated Tyr402 of Pyk2 is required for the phosphorylation of other tyrosines on Pyk2 and provides a binding site for Fyn SH2 in

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

3/23/24. 1:41 PM

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Limited Uses

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