

PYK2 (C-terminal region)

Cat. # PM2291

Host Mouse Monoclonal IgG1

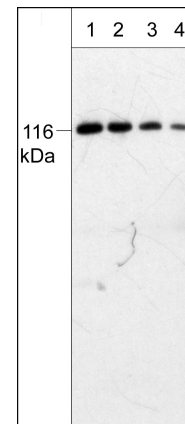
Size 100 µl

Background:

Protein tyrosine kinase, Pyk2 (CAK β , RAFTK, CADTK), is a nonreceptor tyrosine kinase structurally related to focal adhesion kinase (FAK). 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 spreading and migration of various cell types. In T-cells, Pyk2 is tyrosine phosphorylated and activated upon ligation of TCR. Phosphorylation of Tyr-402 is required for the phosphorylation of other tyrosines in Pyk2 and provides a binding site for Fyn SH2 during T-cell activation.

References

- Avraham, S. et al. (1995) J. Biol. Chem. 270:27742.
Lev, S. et al. (1995) Nature 376:737.
Sasaki, H. et al. (1995) J. Biol. Chem. 270:21206.
Katagiri, T. et al. (2000) J. Biol. Chem. 275:19645.
Duong, L. T. et al. (2001) J. Biol. Chem. 276:7484.



Western blot analysis of mouse brain. The blot was probed with anti-PYK2 (C-terminal region) antibody at 1:250 (lane 1), 1:500 (lane 2), 1:1000 (lane 3), and 1:2000 (lane 4).

Immunogen:

This antibody was generated from a recombinant human PYK2 protein that included amino acids residues in the C-terminal region. This sequence is conserved in rat and mouse PYK2, and has low homology to other related kinases.

Applications:

WB	1:1000
ELISA	1:2000
ICC	1:100

End user should determine optimal dilution for their particular applications and experiments. Western blot membranes were incubated with diluted antibody in 5% non-fat milk, PBS, 0.04% Tween20 for 1 hour at room temperature.

Related Products:

- FM1211 FAK (Tyr-397), phospho-specific Mouse Monoclonal
SP1371 c-Src (Tyr-215), phospho-specific [Conserved site] Rabbit Polyclonal
PM1021 Paxillin (Tyr-31), phospho-specific Mouse Monoclonal
PP1051 Paxillin (Ser-178), phospho-specific Rabbit Polyclonal
PP1341 Paxillin (Ser-83), phospho-specific Rabbit Polyclonal
PM2691 PYK2 (Tyr-402), phospho-specific Mouse Monoclonal

FOR RESEARCH USE ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

Buffer and Storage:

Mouse monoclonal antibody purified with protein A chromatography is supplied in 100µl phosphate-buffered saline, 50% glycerol, 1 mg/ml BSA, and 0.05% sodium azide. Store at -20°C. Do not aliquot. Stable for 1 year.

Specificity:

The antibody detects a 116 kDa* band corresponding to PYK2 on SDS-PAGE immunoblots of mouse brain tissue.

*All molecular weights (MW) are confirmed by comparison to Bio-Rad Rainbow Markers and to western blot mobilities of known proteins with similar MW.

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