10320 Camino Santa Fe, Suite G
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# Anti-PYK2 (Tyr-402), Phosphospecific Antibody

**Catalog # AN1929**

## Specification

### Anti-PYK2 (Tyr-402), Phosphospecific Antibody - Product Information

| | |
|---|---|
| Primary Accession | Q14289 |
| Reactivity | **Bovine** |
| Host | **Mouse** |
| Clonality | **Mouse Monoclonal** |
| Isotype | **IgG1** |
| Calculated MW | **115875** |

### Anti-PYK2 (Tyr-402), Phosphospecific Antibody - Additional Information

| | |
|---|---|
| Gene ID | **2185** |

**Other Names**
CAKbeta, FAK2

**Storage**
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**
Anti-PYK2 (Tyr-402), Phosphospecific Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Shipping**
Blue Ice

### Anti-PYK2 (Tyr-402), Phosphospecific Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

### Anti-PYK2 (Tyr-402), Phosphospecific Antibody - Images

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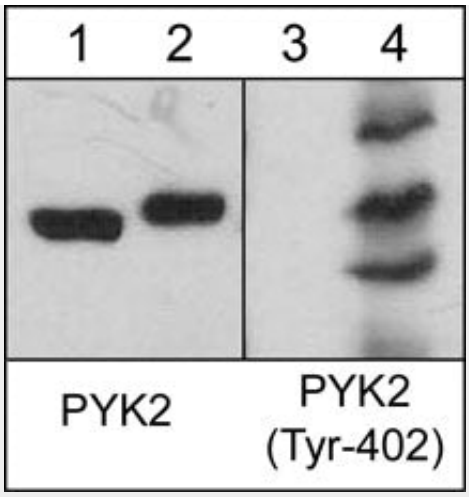


Western blot analysis of human Jurkat cells untreated (lanes 1 & 3) or treated with pervanadate (1 mM) for 30 min. (lanes 2 & 4). The blot was probed with anti-PYK2 (C-terminal region) antibody (lanes 1 & 2) or anti-PYK2 (Tyr-402) (lanes 3 & 4).

**Anti-PYK2 (Tyr-402), Phosphospecific Antibody - Background**

Protein tyrosine kinase, Pyk2 (CAKb, 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.