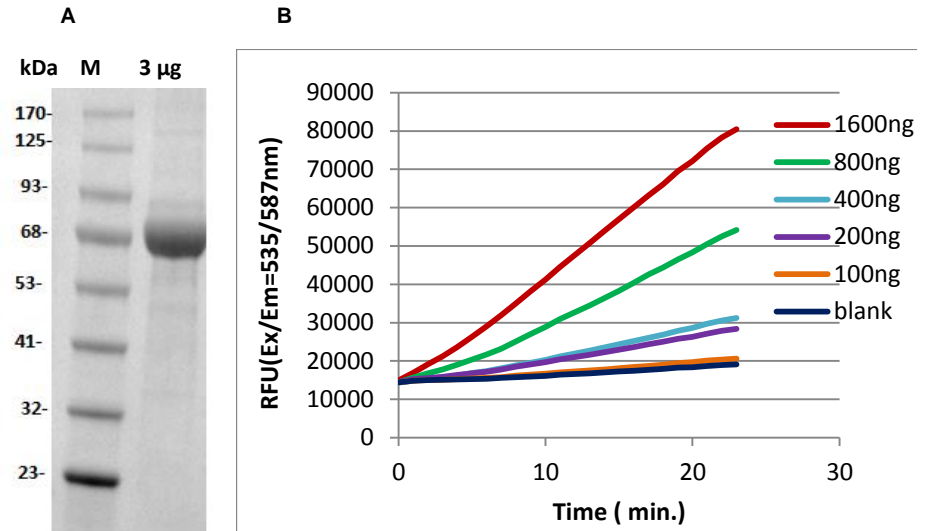


## FAK2/PYK2B, Human Recombinant

<b>CATALOG NO:</b>	P1416-10      10 µg P1416-50      50 µg
<b>ALTERNATE NAMES:</b>	PTK2B, CAK beta, Protein-tyrosine kinase 2-beta
<b>SOURCE:</b>	Baculovirus (sf9 Insect Cells) (aa 360-1009)
<b>PURITY:</b>	≥95% by SDS-PAGE
<b>MOL. WEIGHT:</b>	76.2 kDa (contains N-His tag).
<b>FORM:</b>	Liquid
<b>FORMULATION:</b>	In 50 mM Tris, 150 mM NaCl pH 7.5 0.25 mM DTT, 0.1 mM EGTA, 0.1 mM EDTA and 25% Glycerol
<b>STORAGE CONDITIONS:</b>	Store at -80°C. For long term storage aliquot and store at -80°C. Avoid repeated freeze-thaw cycles.
<b>DESCRIPTION:</b>	FAK2 is a cytoplasmic tyrosine kinase involved in calcium-induced regulation of ion channels and activation of the MAP kinase signaling pathway. It regulates reorganization of the actin cytoskeleton, cell polarization, cell migration, adhesion, spreading and bone remodeling. The protein may represent an important signaling intermediate between neuropeptide-activated receptors or neurotransmitters that increase calcium flux and the downstream signals that regulate neuronal activity.
<b>SPECIFIC ACTIVITY:</b>	>20 mU/mg measured by using BioVision ADPsensor™ Universal Kinase Activity Assay Kit K212-100.
<b>UNIT ACTIVITY:</b>	One unit is the amount that generates 1.0 µmol of ADP per min at pH 7.2 and 37°C using a poly (Glu:Tyr, 4:1) synthetic peptide substrate (BioVision ADPsensor™ Universal Kinase Activity Assay Kit K212-100).



**Figure A. SDS-PAGE of FAK2.** Recombinant FAK2 (3 µg) is loaded on the SDS-PAGE (4-20%) under reducing conditions and stained with Coomassie Blue. Lane M-MW marker

**Figure B. FAK2 Activity.** The specific activity of Recombinant FAK2 was measured in presence of substrate Poly (Glu, Tyr) using BioVision ADPsensor™ Universal Kinase Activity Assay Kit (BV Cat. No. K212-100)

**RELATED PRODUCTS:**

- ADPsensor™ Universal Kinase Activity Assay Kit (Cat. No. K212-100)
- Phospho-PYK2 Tyr580) Antibody (Cat. No. A1735)

**FOR RESEARCH USE ONLY! Not to be used on humans.**

