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## Data Sheet

### **PAK1**

human, recombinant

Catalog #: 40072

Lot#110413

Conc. 1 mg/ml

**Formulated in:** 25 mM Tris-HCl, pH 8.0,  
 150 mM NaCl, 10% glycerol, and 5 mM DTT.

**Stability:** >6 months at -80°C

**References:**

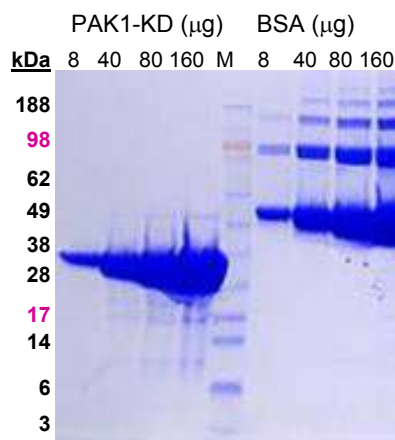
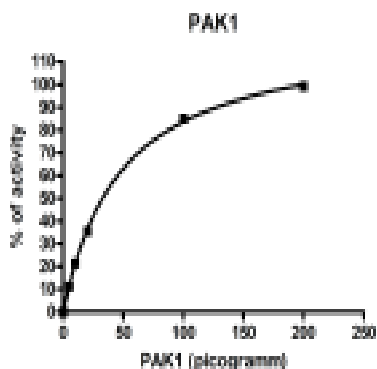
1. Sheehan, K.A., et al., Am. J. Physiol., Cell Physiol. 296 (1), C47-C58 (2009)
2. Reddy, S.D., et al., Cancer Res. 68 (20), 8195-8200 (2008)

**Description:** Human PAK1 (GenBank Accession No. NM\_002576.4), amino acids 248-545, MW=33.6 kDa, expressed in E.coli.

**Specific Activity:** 32638 pmoles/min/μg. Analysis of enzymatic activity was performed according to Zlyte assay protocol (Invitrogen): 1. Different concentration of PAK1 were incubated in a buffer containing 50 mM HEPES (pH7.5), 10 mM MgCl<sub>2</sub>, 1 mM EGTA, 200 μM ATP, 0.01% Brij-35, and 2 μM substrate (SER/THR 14, Invitrogen) at room temperature for 1 hour. 2. Developer solution was added to reaction and reaction was stopped after 1h of incubation at RT. 3. Fluorescence was then detected using λ<sub>exc</sub>=460±40 nm and λ<sub>em</sub>=528±20 nm filters.

**Application:** Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.

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