

**Product:** PKD2, active  
**Catalog #:** 02-2052  
**Amount:** 5 µg

**DESCRIPTION:** PKD2 is a novel phorbol ester- and growth factor-stimulated serine/threonine kinase that contains two cysteine-rich motifs at the N terminus, a pleckstrin homology domain, and a catalytic domain (1). It exhibits the strongest homology to the serine/threonine protein kinases PKD/PKCmu and PKC nu. The PKD family of enzymes have been implicated in very diverse cellular functions, including Golgi organization and plasma membrane directed transport, metastasis, immune responses, apoptosis and cell proliferation (2) The gene accession number is [NM 016457](#)  
Gene Aliases: HSPC187; DKFZp586E0820; PRKD2

**SOURCE:** Recombinant full-length human PKC zeta was expressed by baculovirus in Sf9 insect cells using a N-terminal GST tag

**MOLECULAR WEIGHT:** 130 kDa

**PURITY:** > 95% (by densitometry)

**FORM:** Purified, in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, 25% glycerol

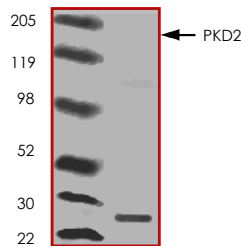
**CONCENTRATION:** 0.1 mg/ml

**SPECIFIC ACTIVITY:** 259 nmol/mim/mg

**STORAGE:** -70°C (aliquot). AVOID repeated Freeze/thaw cycles

**REFERENCE:**

1. Sturany, S. et al: *Molecular cloning and characterization of the human protein kinase D2. A novel member of the protein kinase D family of serine threonine kinases.* J Biol Chem. 2001 Feb 2;276(5):3310-8
2. Rykx, A. et al: *Protein kinase D: a family affair.* FEBS Lett. 2003 Jul 3;546(1):81-6



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