

Product Information

PHLPP2 (766-1043), GST-tagged, human recombinant, expressed in *E. coli* cells

Catalog Number **SRP5213**

Storage Temperature -70°C

Synonyms: KIAA0931, PHLPP1

Product Description

PHLPP2 or PH domain and leucine rich repeat protein phosphatase 2 is the important regulator of Akt serine-threonine kinases and conventional/novel protein kinase C (PKC) isoforms. PHLPP1 and PHLPP2 differentially regulated AKT signaling by selectively dephosphorylating the hydrophobic motifs of AKT2 or AKT3. PHLPP may act as a tumor suppressor in several types of cancer due to its ability to block growth factor-induced signaling in cancer cells.

Recombinant human PHLPP2 (766-1043) was expressed in *E. coli* cells using an N-terminal GST tag. The gene accession number is NM_015020. Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, and 25% glycerol.

Molecular mass: ~56 kDa

Purity: 70–95% (SDS-PAGE, see Figure 1)

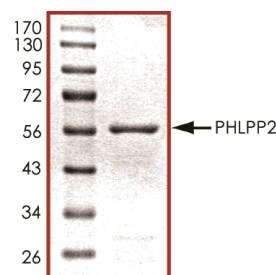
Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

The product ships on dry ice and storage at -70°C is recommended. After opening, aliquot into smaller quantities and store at -70°C . Avoid repeated handling and multiple freeze/thaw cycles.

Figure 1.
SDS-PAGE Gel of Typical Lot
70–95% (densitometry)



References

1. Brognard, J. et al., PHLPP and a second isoform, PHLPP2, differentially attenuate the amplitude of Akt signaling by regulating distinct Akt isoforms. *Molec. Cell*, **25**, 917-931 (2007).

RC,MAM 11/11-1