



# **AKT2 (RAC-beta Serine/threonine-Protein Kinase, Protein Kinase Akt-2, Protein Kinase B beta, PKB beta, RAC-PK-beta, AKT2, PKBb)**

## **Catalog number**

220680

## **Supplier**

United States Biological

AKT, also known as protein kinase B (PKB), is a 57kDa serine/threonine protein kinase. There are three mammalian isoforms of Akt: AKT1 (PKB alpha), AKT2 (PKB beta) and AKT3 (PKB gamma) with AKT2 and AKT3 being ~82% identical with the AKT1 isoform. Each isoform has a pleckstrin homology (PH) domain, a kinase domain and a carboxy terminal regulatory domain. AKT was originally cloned from the retrovirus AKT8, and is a key regulator of many signal transduction pathways. Its tight control over cell proliferation and cell viability are manifold; overexpression or inappropriate activation of AKT has been seen in many types of cancer.

## **Applications**

Suitable for use in Western Blot, Immunohistochemistry. Other applications not tested.

## **Recommended Dilution**

Western Blot: 1:500-1:2000

Immunohistochemistry: 1:50-1:200

Optimal dilutions to be determined by the researcher.

## **Storage and Stability**

May be stored at 4°C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20°C. Aliquots are stable for 12 months after receipt. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.

## **Immunogen**

Recombinant full length Human AKT2.

## **Formulation**

Supplied as a liquid PBS, 0.1% sodium azide, 50% glycerol.

## **Purity**

Purified by immunoaffinity chromatography.

## **Specificity**

Recognizes endogenous levels of AKT2. Species Crossreactivity: Human, mouse, rat

## **Product Type**

Pab

## **Source**



human

**Isotype**

IgG

**Grade**

Affinity Purified

**Applications**

IHC WB

**Crossreactivity**

Hu Mo Rt

**Storage**

-20°C

**MW**

60