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## 35-1722: Polyclonal Antibody to AKT1 (Ab-450)

Clonality: Polyclonal WB,IHC,IF Application:

Reactivity: Human, Mouse, Rat

Gene: AKT1 Gene ID: 207 P31749 **Uniprot ID:** Format: Purified

**Alternative Name:** RAC-PK-alpha, Protein kinase B

Isotype: Rabbit IgG

Immunogen Information: Peptide sequence around aa.448~452 (T-I-T-P-P) derived from Human AKT1.

## **Description**

General protein kinase capable of phosphorylating several known proteins. Phosphorylates TBC1D4. Signals downstream of phosphatidylinositol 3-kinase (PI3K) to mediate the effects of various growth factors such as platelet-derived growth factor (PDGF), epidermal growth factor (EGF), insulin and insulin-like growth factor I (IGF-I). Plays a role in glucose transport by mediating insulin-induced translocation of the GLUT4 glucose transporter to the cell surface. Mediates the antiapoptotic effects of IGF-I. Mediates insulin-stimulated protein synthesis by phosphorylating TSC2 at 'Ser-939' and 'Thr-1462', thereby activating mTORC1 signaling and leading to both phosphorylation of 4E-BP1 and in activation of RPS6KB1. Promotes glycogen synthesis by mediating the insulin-induced activation of glycogen synthase.

## **Product Info**

Amount:  $50 \mu l / 100 \mu l$ 

Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM Content:

NaCl, 0.02% sodium azide and 50% glycerol.

Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid Storage condition:

repeated freeze and thaw cycles.

## **Application Note**

Predicted MW: 60kd, Western blotting: 1:500~1:1000, Immunohistochemistry: 1:50~1:100, Immunofluorescence: 1:100~1:200

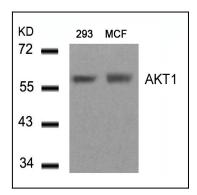


Figure 1: Western blot analysis of extracts from 293 and MCF cells using AKT1(Ab-450) Antibody 35-1722.



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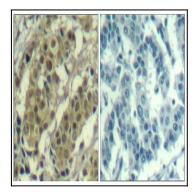


Figure 2: Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using AKT1(Ab-450) Antibody 35-1722 (left) or the same antibody preincubated with blocking peptide(right).

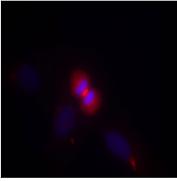


Figure 3: Immunofluorescence staining of methanol-fixed Hela cells using AKT1(Ab-450) Antibody 35-1722 .