

9853 Pacific Heights Blvd. Suite D. San Diego, CA 92121, USA Tel: 858-263-4982

Email: info@abeomics.com

## 35-1302: Polyclonal Antibody to AKT1 (phospho-Thr450)

Clonality: Polyclonal Application: WB,IHC,IF

**Reactivity:** Human, Mouse, Rat

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

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

**Isotype:** Rabbit IgG

Immunogen Information: Peptide sequence around phosphorylation site of threonine 450 (T-I-T(p)-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 μl / 100 μl

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

NaCl, 0.02% sodium azide and 50% glycerol.

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

repeated freeze and thaw cycles.

## **Application Note**

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

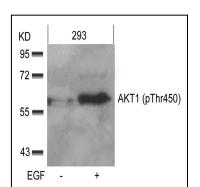


Figure 1: Western blot analysis of extracts from 293 cells untreated or treated with EGF using AKT1(phospho-Thr450) Antibody 35-1302 .



9853 Pacific Heights Blvd. Suite D. San Diego, CA 92121, USA Tel: 858-263-4982

Email: info@abeomics.com

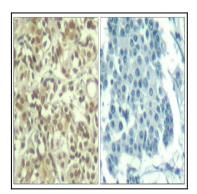


Figure 2: Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using AKT1(Phospho-Thr450) Antibody 35-1302 (left) or the same antibody preincubated with blocking peptide(right).

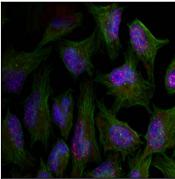


Figure 3: Immunofluorescence staining of methanol-fixed Hela cells using AKT1(phospho-Thr450) Antibody 35-1302 .