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Pan-Akt Polyclonal Antibody

Cat #: G-AB-05857

Host: Rabbit **Reactivity:** Human, Mouse, Rat

Isotype: IgG **Clonality:** Polyclonal

Overview:
Plays a role as a key modulator of the AKT-mTOR signaling pathway controlling the tempo of the process of newborn neurons integration during adult neurogenesis, including correct neuron positioning, dendritic development and synapse formation (By similarity). General protein kinase capable of phosphorylating several known proteins. Phosphorylates TBC1D4. Signals downstream of phosphatidylinositol 3-kinase (PI(3)K) 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. The activated form can suppress FoxO gene transcription

Gene ID:

Accession #:

Immunogen: Synthesized peptide derived from human Pan-Akt around the non-phosphorylation site of Ser473.

Conjugation: Unconjugated

Swissprot: P31749,P31751,Q9Y243

Calculated Molecular Weight: 56 kDa

Observed Molecular Weight: 56 kDa

Concentration: 1 mg/mL

Buffer: PBS with 0.02% sodium azide, 0.5% BSA and 50% glycerol, pH7.4

Purification Method: Affinity purification

Application: WB,IHC-p,ELISA

Dilution: WB 1:500-1:2000, IHC 1:100-1:300, ELISA 1:10000

Storage: Store at -20°C. Avoid freeze / thaw cycles.