Phospho-Pan-Akt (Ser473) Polyclonal Antibody

catalog number: E-AB-20802

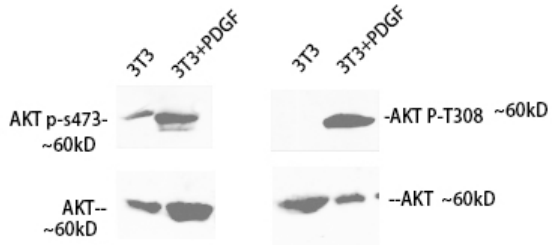
Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

Description

Reactivity	Human;Mouse;Rat
Immunogen	Synthesized peptide derived from human Akt around the phosphorylation site of Ser473
Host	Rabbit
Isotype	IgG
Purification	Affinity purification
Buffer	Phosphate buffered solution, pH 7.4, containing 0.05% stabilizer, 0.5% protein protectant and 50% glycerol.

Applications	Recommended Dilution
WB	1:500-1:2000
IHC	1:100-1:300
IF	1:50-1:200

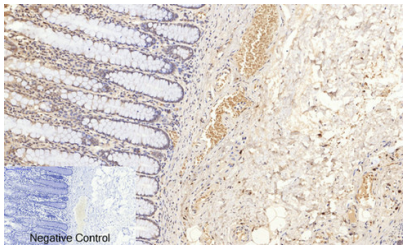
Data



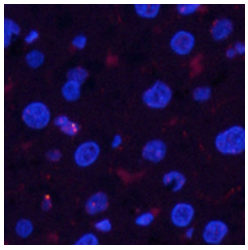
Western Blot analysis of 3T3 cells treated using Phospho-Pan-Akt (Ser473) Polyclonal Antibody at dilution of 1:1000

Observed-MW:55 kDa

Calculated-MW:56 kDa



Immunohistochemistry of paraffin-embedded Human colon tissue using Phospho-Pan-Akt (Ser473) Polyclonal Antibody at dilution of 1:200



Immunofluorescence analysis of Rat liver tissue using Phospho-Pan-Akt (Ser473) Polyclonal Antibody at dilution of 1:200

Preparation & Storage

Storage	Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.
Shipping	The product is shipped with ice pack,upon receipt,store it immediately at the temperature recommended.

Background

Toll-free: 1-888-852-8623
Web:www.elabscience.com
Tel: 1-832-243-6086
Email:techsupport@elabscience.com
Fax: 1-832-243-6017

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 and promote cell cycle progression. Essential for the SPATA13-mediated regulation of cell migration and adhesion assembly and disassembly.

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