

AKT1 Antibody

Subcategory: Rabbit Polyclonal Antibody

Cat. No.: 252022

Unit: 0.1 mg

Description:

AKT1 (RAC-alpha serine/threonine-protein kinase) is a key modulator of the AKT-mTOR signaling pathway. It controls the tempo of the process of newborn neurons integration during adult neurogenesis, including correct neuron positioning, dendritic development and synapse formation. AKT1 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). AKT1 plays a role in glucose transport by mediating insulin-induced translocation of the GLUT4 glucose transporter to the cell surface. AKT1 mediates the antiapoptotic effects of IGF-I. Defects in AKT1 are a cause of susceptibility to breast cancer (BC), a common malignancy originating from breast epithelial tissue.

Isotype: Rabbit Ig

Applications: E, WB, IHC, IF

Species Reactivity: H, M, R

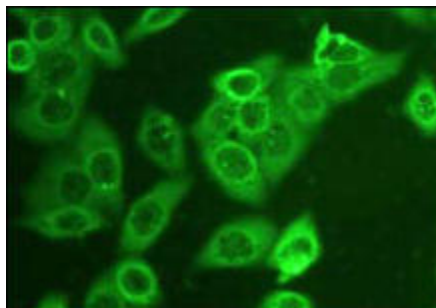
Format: Each vial contains 0.1 mg IgG in 0.1 ml (1 mg/ml) of PBS pH7.4, 2% BSA with 0.09% sodium azide. Antibody was purified by immunogen affinity chromatography.

Alternate Names: RAC-alpha serine/threonine-protein kinase; RAC-PK-alpha; Protein kinase B; PKB; C-AKT; AKT1; RAC

Accession No.: P31749

Antigen: KLH-conjugated synthetic peptide encompassing a sequence within the center region of human AKT1.

Application Notes: E: 1:10,000-1:40,000; WB: 1:100-1:1,000; IHC: 1:100-1:500; IF: 1:100-1:200



AKT1 immunofluorescent staining in HeLa cells. HeLa cells are stained with AKT1 Antibody (Cat. No. 252022) used at 1:50 dilution.

Storage: Store at -20°C. Minimize freeze-thaw cycles. Product is guaranteed one year from the date of shipment.

For research use only, not for diagnostic or therapeutic procedures.