AKT1 Antibody

Catalog No: #35562

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

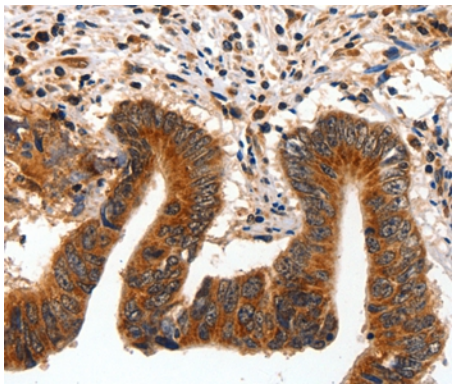
Description

Product Name	AKT1 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antigen affinity purification.
Applications	IHC
Species Reactivity	Hu
Specificity	The antibody detects endogenous levels of total AKT1 protein.
Immunogen Type	Recombinant Protein
Immunogen Description	Fusion protein corresponding to residues near the N terminal of human V-akt murine thymoma viral oncogene homolog 1
Target Name	AKT1
Other Names	AKT; PKB; RAC; PRKBA; PKB-ALPHA; RAC-ALPHA
Accession No.	Swiss-Prot#: P31749NCBI Gene ID: 207Gene Accssion: BC000479
Uniprot	P31749
GeneID	207;
Concentration	0.7mg/ml
Formulation	Rabbit IgG in pH7.4 PBS, 0.05% NaN3, 40% Glycerol.
Storage	Store at -20°C

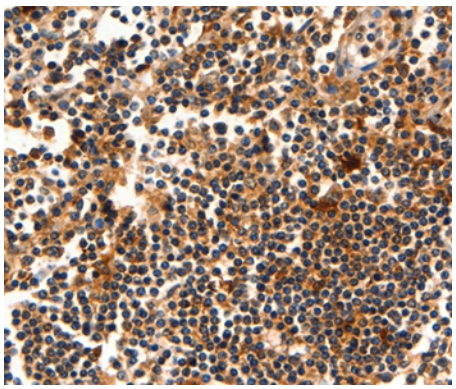
Application Details

Immunohistochemistry: 1:25-1:100

Images



Immunohistochemical analysis of paraffin-embedded Human colon cancer tissue using #35562 at dilution 1/15.



Immunohistochemical analysis of paraffin-embedded Human tonsil tissue using #35562 at dilution 1/15.

Background

The serine-threonine protein kinase encoded by the AKT1 gene is catalytically inactive in serum-starved primary and immortalized fibroblasts. AKT1 and the related AKT2 are activated by platelet-derived growth factor. The activation is rapid and specific, and it is abrogated by mutations in the pleckstrin homology domain of AKT1. It was shown that the activation occurs through phosphatidylinositol 3-kinase. In the developing nervous system AKT is a critical mediator of growth factor-induced neuronal survival. Survival factors can suppress apoptosis in a transcription-independent manner by activating the serine/threonine kinase AKT1, which then phosphorylates and inactivates components of the apoptotic machinery. Mutations in this gene have been associated with the Proteus syndrome. Multiple alternatively spliced transcript variants have been found for this gene.

Note: This product is for in vitro research use only