

For Research Use Only

AKT2 Polyclonal antibody

Catalog Number: 28113-1-AP

3 Publications



Basic Information

| | | |
|---|--|---|
| Catalog Number: 28113-1-AP | GenBank Accession Number: BC120994 | Purification Method: Antigen affinity purification |
| Size: 150ul , Concentration: 550 ug/ml by Nanodrop; | GeneID (NCBI): 208 | Recommended Dilutions: WB 1:500-1:1000 IHC 1:50-1:500 IF/ICC 1:50-1:500 |
| Source: Rabbit | UNIPROT ID: P31751 | |
| Isotype: IgG | Full Name: v-akt murine thymoma viral oncogene homolog 2 | |
| Immunogen Catalog Number: AG27005 | Observed MW: 56 kDa | |

Applications

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|--|---|
| Tested Applications: WB, IHC, IF/ICC, FC (Intra), ELISA | Positive Controls: WB : NIH/3T3 cells, mouse liver tissue IHC : human liver tissue, IF/ICC : NIH/3T3 cells, |
| Cited Applications: WB, IHC | |
| Species Specificity: human, mouse | |
| Cited Species: human, mouse | |
| Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 | |

Background Information

AKT2 is one of 3 closely related serine/threonine-protein kinases (AKT1, AKT2 and AKT3) called the AKT kinase, and which regulate many processes including metabolism, proliferation, cell survival, growth and angiogenesis and their activation has been observed in a wide variety of cancers. AKT2 is mainly involved in cancer cell survival, apoptosis inhibition, migration and invasion(PMID:21979951). Defects in AKT2 are a cause of susceptibility to breast cancer (BC). AKT2 promotes metastasis of tumor cells without affecting the latency of tumor development. And defects in AKT2 are a cause of non-insulin-dependent diabetes mellitus (NIDDM) and hypoinsulinemic hypoglycemia with hemihypertrophy (HIHGH). The full length protein has four glycosylation sites.

Notable Publications

| Author | Pubmed ID | Journal | Application |
|--------------|-----------|-------------------------|-------------|
| Zhi-Da Zhang | 35219877 | Int J Biochem Cell Biol | WB |
| Nannan Sha | 39865175 | Oncogene | IHC |
| Xiaotong Cai | 39235066 | Chem Res Toxicol | WB |

Storage

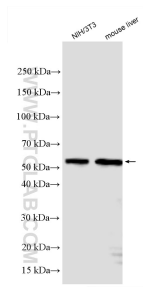
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

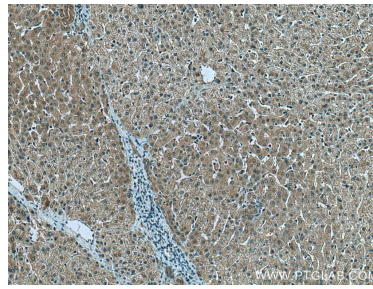
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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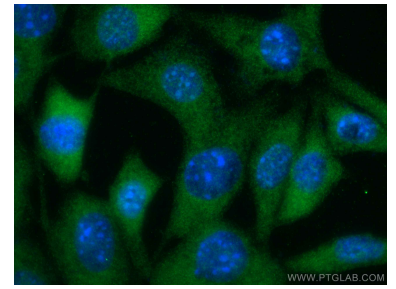
Selected Validation Data



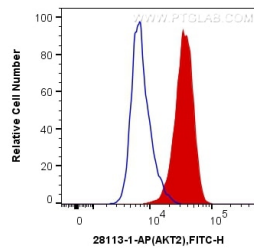
Various lysates were subjected to SDS PAGE followed by western blot with 28113-1-AP (AKT2 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 28113-1-AP (AKT2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed NIH/3T3 cells using AKT2 antibody (28113-1-AP) at dilution of 1:100 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).



1X10⁶ NIH/3T3 cells were intracellularly stained with 0.4 ug Anti-Human AKT2 (28113-1-AP) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).