For Research Use Only

AKT2 Polyclonal antibody

Catalog Number:28113-1-AP 3 Publications

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Basic Information

Catalog Number:
28113-1-AP

Concentration:
550 μg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG27005

GenBank Accession Number:
BC120994

GeneID (NCBI):
208

UNIPROT ID:
P31751

Full Name:
v-akt murine thymoma viral oncogene homolog 2

Observed MW:
56 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:1000
IHC 1:50-1:500
IF/ICC 1:50-1:500

Applications

Tested Applications:
WB, IHC, IF/ICC, FC (Intra), ELISA

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

Positive Controls:

WB : NIH/3T3 cells, mouse liver tissue

IHC : human liver tissue,

IF/ICC : NIH/3T3 cells,

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 (HIHGHH). 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

For technical support and original validation data for this product please contact:
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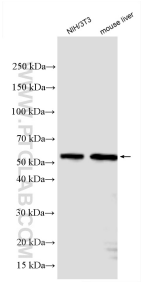
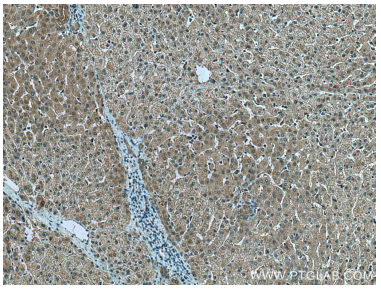
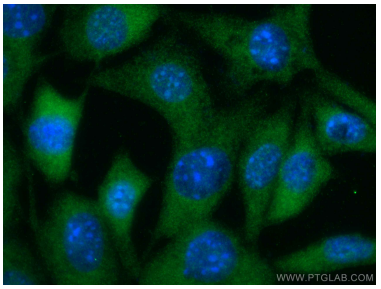
Selected Validation Data



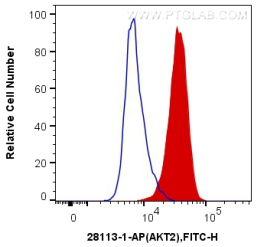
Various lysates were subjected to SDS PAGE followed by western blot with 28113-1-AP (AKT2 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



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).



1X10^6 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).