For Research Use Only

AKT2 Polyclonal antibody

Catalog Number:17609-1-AP Featured Product 14 Publications

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Basic Information

Catalog Number:
17609-1-AP

Size:
150ul , Concentration: 267 μg/ml by Nanodrop and 267 μg/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG11770

GenBank Accession Number:
BC063421

GeneID (NCBI):
208

UNIPROT ID:
P31751

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

Calculated MW:
481 aa, 56 kDa

Observed MW:
56 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:1000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:100-1:400

Applications

Tested Applications:
WB, IP, IHC, ELISA

Cited Applications:
WB, IHC

Species Specificity:
human, mouse, rat

Cited Species:
human, rat, 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,

IP : HepG2 cells,

IHC : human liver tissue, human breast cancer tissue, human liver cancer tissue, human ovary tumor tissue

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
Dong Pan	34604239	Front Cell Dev Biol	WB
Lin Wang	33015042	Front Cell Dev Biol	WB
Ting Liu	32873299	Respir Res	WB,IHC

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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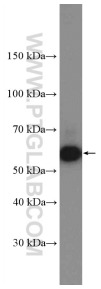
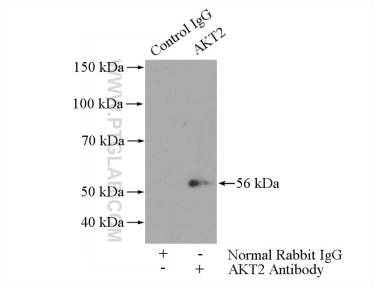
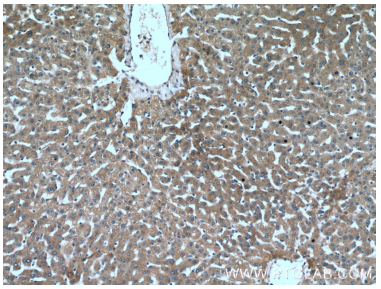
Selected Validation Data



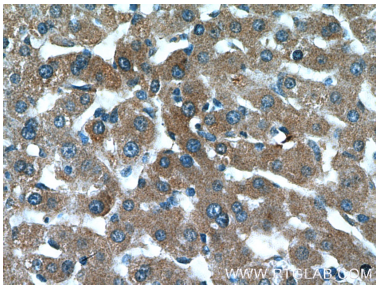
NIH/3T3 cells were subjected to SDS PAGE followed by western blot with 17609-1-AP (AKT2 Antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



IP result of anti-AKT2 (IP:17609-1-AP, 4ug; Detection:17609-1-AP 1:500) with HepG2 cells lysate 1600ug.



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 17609-1-AP (AKT2 Antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 17609-1-AP (AKT2 Antibody) at dilution of 1:200 (under 40x lens).