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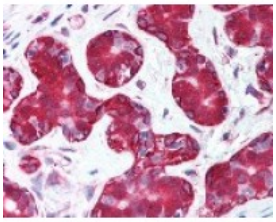
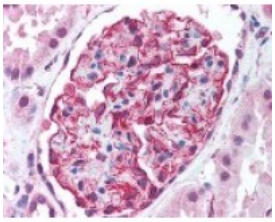
AKT2 Antibody

CATALOG NUMBER: 48-432



Immunohistochemistry staining of AKT2 in breast tissue using AKT2 Antibody.



Immunohistochemistry staining of AKT2 in kidney using AKT2 Antibody.

Specifications

SPECIES REACTIVITY:	Human, Mouse, Rat
TESTED APPLICATIONS:	IHC, IP, WB
APPLICATIONS:	AKT2 antibody can be used in ELISA starting at 1:10000, Western Blot starting at 1:500 - 1:2000, immunohistochemistry starting at 1:200, and immunofluorescence starting at 1:200 - 1:1000.
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.
IMMUNOGEN:	AKT2 antibody was raised against a peptide corresponding to the C-Terminus of AKT2 (Human).
HOST SPECIES:	Rabbit

Properties

PHYSICAL STATE:	Liquid
BUFFER:	PBS, 0.05% sodium azide.
STORAGE CONDITIONS:	Store AKT2 antibody at 4 ˚C, **Avoid Freezing**
CLONALITY:	Polyclonal
CONJUGATE:	Unconjugated

Additional Info

ALTERNATE NAMES:	AKT2, PKB beta, PKBBETA, PRKBB, Protein kinase Akt-2, Protein kinase B beta, RAC-PK-beta, Rac protein kinase beta, RAC-BETA, HIHGHH, PKBB
ACCESSION NO.:	P31751
PROTEIN GI NO.:	1170703
OFFICIAL SYMBOL:	AKT2
GENE ID:	208

Background

BACKGROUND:	AKT2 encodes a RAC/AKT-type protein kinase that contains a N-terminal pleckstrin-homology (PH) domain and a central catalytic domain closely related to both cAMP-dependent protein kinase and protein kinase C. The protein is a member of PI3K-mediated signalling pathways associated with the regulation of proliferation, survival, protein synthesis, and metabolism. It is activated by a variety of growth factors. AKT2 has been shown to be

transcriptionally regulated by MyoD and to activate MyoD-myocyte enhancer binding factor-2 (MEF2) transactivation activity during muscle differentiation. Glycogen synthase kinase 3 (GSK-3) also has been shown to be a downstream target of AKT2. The AKT2 gene is one of the human homologues of v-akt, the transduced oncogene of the AKT8 virus, which induces lymphomas in mice. It has been implicated in breast, ovarian, and pancreatic cancers.

FOR RESEARCH USE ONLY

December 13, 2016