



Datasheet for ABIN729298

## anti-AKT 1/2/3 antibody (pSer473)



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### Overview

Quantity:	100 µL
Target:	AKT 1/2/3
Binding Specificity:	pSer473
Reactivity:	Human, Mouse, Rat, Cow, Chicken, Rabbit, Fish
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This AKT 1/2/3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunofluorescence (Cultured Cells) (IF (cc)), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

### Product Details

Immunogen:	KLH conjugated synthetic phosphopeptide derived from human AKT1 around the phosphorylation site of Ser473
Isotype:	IgG
Cross-Reactivity:	Chicken, Cow, Fish, Human, Mouse, Rabbit, Rat
Predicted Reactivity:	Dog,Cow,Sheep
Purification:	Purified by Protein A.

### Target Details

Target:	AKT 1/2/3
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## Target Details

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Alternative Name:	AKT1/2/3 ( <a href="#">AKT 1/2/3 Products</a> )
Background:	<p>Synonyms: Akt, RAC-alpha serine/threonine-protein kinase, Protein kinase B, PKB, Protein kinase B alpha, PKB alpha, RAC-PK-alpha, Akt1</p> <p>Background: AKT1-specific substrates have been recently identified, including palladin (PALLD), which phosphorylation modulates cytoskeletal organization and cell motility, prohibitin (PHB), playing an important role in cell metabolism and proliferation, and CDKN1A, for which phosphorylation at 'Thr-145' induces its release from CDK2 and cytoplasmic relocation. These recent findings indicate that the AKT1 isoform has a more specific role in cell motility and proliferation. Phosphorylates CLK2 thereby controlling cell survival to ionizing radiation.</p>
Gene ID:	24185
UniProt:	<a href="#">P47196</a>

## Application Details

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Application Notes:	WB 1:300-5000 ELISA 1:500-1000 IHC-P 1:200-400 IHC-F 1:100-500 IF(IHC-P) 1:50-200 IF(IHC-F) 1:50-200 IF(ICC) 1:50-200
Restrictions:	For Research Use only

## Handling

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Format:	Liquid
Concentration:	1 µg/µL
Buffer:	0.01M TBS( pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Expiry Date: 12 months

## Publications

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Product cited in: Li, Jia, Ji, Gong, Wang, Zhang, Wang, Zang: "The neutrophil elastase inhibitor, sivelestat, attenuates sepsis-related kidney injury in rats." in: **International journal of molecular medicine**, Vol. 38, Issue 3, pp. 767-75, (2016) ([PubMed](#)).

Xu, Xu, Luan, Jiang, Tian, Zhang: "Cardioprotection against experimental myocardial ischemic injury using cornin." in: **Brazilian journal of medical and biological research = Revista brasileira de pesquisas medicas e biologicas**, Vol. 49, Issue 2, pp. e5039, (2016) ([PubMed](#)).

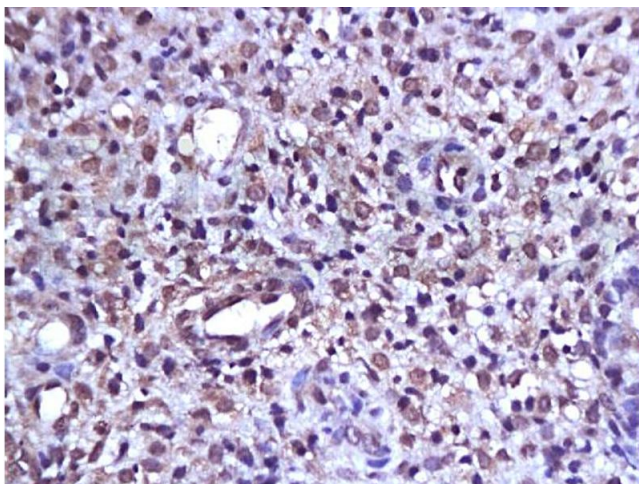
Santos, Mesquita, Barros-Silva, Jerónimo, Henrique, Morais, Paulo, Teixeira: "Uncovering potential downstream targets of oncogenic GRPR overexpression in prostate carcinomas harboring ETS rearrangements." in: **Oncoscience**, Vol. 2, Issue 5, pp. 497-507, (2015) ([PubMed](#)).

Liang, Zeng, Wang, Shen, Li, Ma, Ci, Yu, Jia, Sun, Liu, Liu, Li, Yu, Chen, Jia: "Histone demethylase RBP2 induced by Helicobacter Pylori CagA participates in the malignant transformation of gastric epithelial cells." in: **Oncotarget**, Vol. 5, Issue 14, pp. 5798-807, (2015) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)

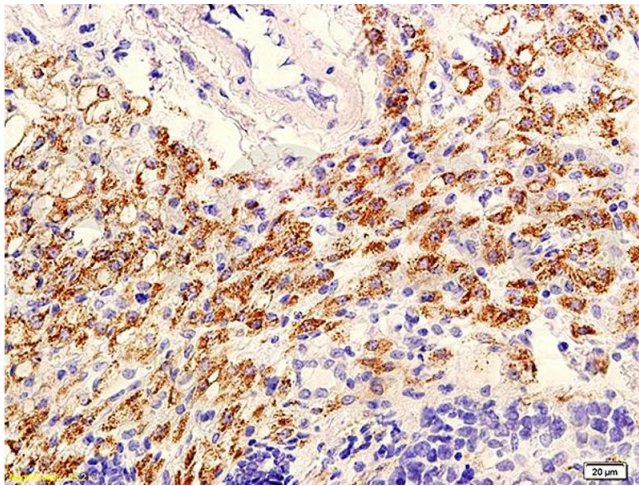
## Images

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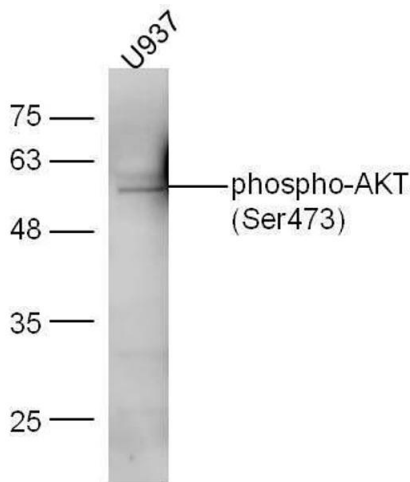
### Immunohistochemistry

**Image 1.** Formalin-fixed and paraffin embedded human endometrium tissue labeled with Anti-phospho-AKT/PKB(Ser473) Polyclonal Antibody, Unconjugated (ABIN729298) at 1:200, followed by conjugation to the secondary antibody and DAB staining



### Immunohistochemistry

**Image 2.** Formalin-fixed and paraffin embedded mouse tumor with labeled Anti-phospho-AKT/PKB(Ser473) Polyclonal Antibody, Unconjugated (ABIN729298) at 1:600, followed by conjugation to the secondary antibody and DAB staining



### Western Blotting

**Image 3.** U937 cell lysates probed with Anti-AKT1/2/3 (Ser472/Ser473/Ser474) Polyclonal Antibody, Unconjugated at 1:5000 for 90 min at 37°C.

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN729298.