## [ Primary Antibody ]

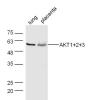
## AKT1+2+3 Rabbit pAb

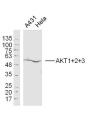


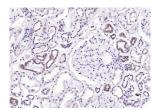
www.bioss.com.cn sales@bioss.com.cn techsupport@bioss.com.cn 400-901-9800

– DATASHEET –		400-901-9800		
- DATASHEET - Host: Rabb	:+	sotype: IgG	Applications: WB (1:500-2000)	
		socype. Igo	<b>IHC-P</b> (1:100-500)	
Clonality: Poly GenelD: 207	lional	SWISS: P31749	<b>IHC-F</b> (1:100-500)	
		500155: P31749	<b>IF</b> (1:100-500) <b>Flow-Cyt</b> (1μg/Test)	
<b>Target:</b> AKT1+2+3				
<b>Immunogen:</b> KLH conjugated synthetic peptide derived from human AKT1/2/3: 401-480/480.		<b>Reactivity:</b> Human, Mouse, Rat (predicted: Rabbit, Pig, Sheep, Cow, Chicken, D	)OQ)	
Purification: affinity purified by Protein A				- 6/
Concentration: 1mg/ml			Predicted MW.: <sup>56 kDa</sup>	
Glyco Ship	erol.	, 0.02% Proclin300 and 50% or one year. Avoid repeated	MW.: <sup>36 KDa</sup> Subcellular Cell membrane ,Cytopl Location: ,Nucleus	asm
serin as pr AKT serin regu phos com of m prote prote inclu in bc the c (PIP3 bispl three activ Phos resp Prote deph is cru apop AKTJ the a mam cont 4F (e	e-threonine protein kinase otein kinase B alpha, beta, proteins all have an N-term e/threonine-specific kinase atory domain. These prote phoinositide 3-kinase (PI3) conent of many signalling per embrane-bound ligands su ein coupled receptors, and eins therefore regulate a wi ding cell proliferation, surv th normal and malignant of ell membrane by phosphar ell membrane by phosphar of the AKT1 protein e phorylation of additional r onse to insulin growth factor ein phosphatases act as ne iosphorylating AKT or PIP3 icial for tumor cell survival tosis in a transcription-ind which then phosphorylate pototic machinery. AKT pi malian target of rapamyci rols the assembly of the eu IF4E) complex and this pat cellular signals from growt gulated in many cancers. N ciated with multiple types of th including Proteus syndr	ins are phosphorylated by (). AKT/PI3K forms a key bathways that involve the binding ch as receptor tyrosine kinases, G- integrin-linked kinase. These AKT de variety of cellular functions rival, metabolism, and angiogenesis ells. AKT proteins are recruited to cidylinositol 3,4,5-trisphosphate phosphatidylinositol 4,5- lbsequent phosphorylation of both e residue 473 is required for full ncoded by this gene. esidues also occurs, for example, in or-1 and epidermal growth factor. gative regulators of AKT proteins by . The PI3K/AKT signalling pathway Survival factors can suppress ependent manner by activating es and inactivates components of roteins also participate in the n (mTOR) signalling pathway which karyotic translation initiation factor hway, in addition to responding to h factors and cytokines, is		

## - VALIDATION IMAGES







Sample: Lung (Mouse) Lysate at 40 ug Placenta

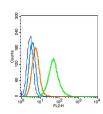
Sample: A431Cell (Human) Lysate at 30 ug Hela

Paraformaldehyde-fixed, paraffin embedded

(Mouse) Lysate at 40 ug Primary: Anti-AKT1+2+3 (bs-6951R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 56 kD Observed band size: 56 kD Cell(Human)Lysate at 30 ug Primary: Anti-AKT1+2+3(bs-6951R)at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 50 kD Observed band size: 50 kD (Human kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (AKT1+2+3) Polyclonal Antibody, Unconjugated (bs-6951R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (AKT1+2+3) Polyclonal Antibody, Unconjugated (bs-6951R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



Blank control(blue): TM4 cells(fixed with 2% paraformaldehyde (10 min) , then permeabilized with 90% ice-cold methanol for 30 min on ice). Primary Antibody:Rabbit Anti-AKT1+2+3 antibody(bs-6951R), Dilution: 1µg in 100 µL 1X PBS containing 0.5% BSA; Isotype Control Antibody: Rabbit IgG(orange) ,used under the same conditions ); Secondary Antibody: Goat anti-rabbit IgG-PE(white blue), Dilution: 1:200 in 1 X PBS containing 0.5% BSA.

## - SELECTED CITATIONS -

- [IF=20.693] Myung-Ju Lee. et al. CXCL1 confers a survival advantage in Kaposi's sarcoma-associated herpesvirusinfected human endothelial cells through STAT3 phosphorylation. J MED VIROL. 2022 Jul;: WB ;Human. 35869037
- [IF=13] Junwu Wang. et al. Hydrogel and Microgel Collaboration for Spatiotemporal Delivery of Biofactors to Awaken Nucleus Pulposus-Derived Stem Cells for Endogenous Repair of Disc. SMALL. 2024 Sep;:2404732 WB ;Rat. 39308283
- [IF=8.7] Xue Sun. et al. An injectable shape-adaptive hydrogel system for subconjunctival injuries: In situ and permanently releases rapamycin to prevent fibrosis via promoting autophagy. MATER TODAY BIO. 2025 Feb;30:101380 IF,WB ;Human. 39790484
- [IF=6.638] Wang Z et al. Light-activatable dual prodrug polymer nanoparticle for precise synergistic chemotherapy guided by drug-mediated computed tomography imaging. Acta Biomater. 2019 Aug;94:459-468. WB ;Human. 31128323
- [IF=6.8] Ranran Sun. et al. Azadirachtin exposure inhibit ovary development of Spodoptera litura (Lepidoptera: Noctuidae) by altering lipids metabolism event and inhibiting insulin signaling pathways. ECOTOX ENVIRON SAFE. 2023 Sep;262:115151 WB ;Spodoptera litura. 37356396