## [ Primary Antibody ]

## phospho-AKT (Ser124) Recombinant Rabbit mAb A N T | B 🔴



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– DATASHEE	т		400-901-9800	
Host:	Rabbit	Isotype: IgG	Applications: WB (1.500-1000)	
Clonality:	Pocombinant		<b>IHC-P</b> (1:100-500)	
ConalD:	207		<b>IHC-F</b> (1:50-100)	
GeneiD:	207	<b>SWISS:</b> P31/49	IF (1:50-100) ICC/IF (1:50-100)	
Target: AKT (Ser124)				
Immunogen:	KLH conjugated Sy Akt1 around the p	Reactivity: Human, Mouse, Rat		
Purification:	affinity purified by	Protein A		
Concentration: 1mg/ml			Predicted	
Storage:	0.01M TBS (pH7.4) Glycerol. Shipped at 4°C. St freeze/thaw cycles	with 1% BSA, 0.02% Proclin300 and 50% ore at -20°C for one year. Avoid repeated 5.	MW.: <sup>56 kDa</sup> Subcellular Cell membrane ,Cytoplasm Location: ,Nucleus	
Background:	: This gene encodes one of the three members of the human AKT serine-threonine protein kinase family which are often referred to as protein kinase B alpha, beta, and gamma. These highly similar AKT proteins all have an N-terminal pleckstrin homology domain, a serine/threonine-specific kinase domain and a C-terminal regulatory domain. These proteins are phosphorylated by phosphoinositide 3-kinase (PI3K). AKT/PI3K forms a key component of many signalling pathways that involve the binding of membrane-bound ligands such as receptor tyrosine kinases, G-protein coupled receptors, and integrin-linked kinase. These AKT proteins therefore regulate a wide variety of cellular functions including cell proliferation, survival, metabolism, and angiogenesis in both normal and malignant cells. AKT proteins are recruited to the cell membrane by phosphatidylinositol 3,4,5-trisphosphate (PIP3) after phosphorylation of phosphatidylinositol 4,5-bisphosphate (PIP2) by PI3K. Subsequent phosphorylation of both threonine residue 308 and serine residue 473 is required for full activation of the AKT1 protein encoded by this gene. Phosphorylating AKT or PIP3. The PI3K/AKT signalling pathway is crucial for tumor cell survival. Survival factors can suppress apoptosis in a transcription-independent manner by activating AKT1 which then phosphorylates and inactivates components of the apoptotic machinery. AKT proteins also participate in the mammalian target of rapamycin (mTOR) signalling pathway which controls the assembly of the eukaryotic translation initiation factor 4F (eIF4E) complex and this pathway, in addition to responding to extracellular signals from growth factors and cytokines, is disregulated in many cancers. Multiole alternatively			

## - VALIDATION IMAGES -



Sample: Lane 1: Mouse Lung tissue lysates Lane

2: Rat Cerebrum tissue lysates Lane 3: Human MCF-7 cell lysates Primary: Anti-phospho-AKT (Ser124) (bsm-52129R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 56 kDa Observed band size: 56 kDa

## - SELECTED CITATIONS -

- [IF=5.4] Xiaobo Xu. et al. CD74–ROS1 L2026M mutant enhances autophagy through the MEK/ERK pathway to promote invasion, metastasis and crizotinib resistance in non-small cell lung cancer cells. FEBS J. 2023 Dec;: WB ;Human. 38148635
- [IF=5.2] Yong Wei. et al. Network pharmacology and experimental evaluation strategies to decipher the underlying pharmacological mechanism of Traditional Chinese Medicine CFF-1 against prostate cancer. AGING-US. 2024 Mar 31; 16(6): 5387–5411 WB ;Human. 38484140
- [IF=3.3] Hong Zhao. et al. The anti-hyperplasia effect of polysaccharide from Prunella vulgaris L. on mammary gland hyperplasia in rats through regulation of the AKT-FOXO3a signaling pathway and intestinal flora. J SCI FOOD AGR. 2024 Jun;: WB ;Rat. 38872513