bs-4089R **[Primary Antibody]**

phospho-AKT2 (Ser474) Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 208 **SWISS:** P31751

Target: AKT2 (Ser474)

Immunogen: KLH conjugated Synthesised phosphopeptide derived from human AKT2 around the phosphorylation site of Ser474: QF(p-S)YS.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: This gene is a putative oncogene encoding a protein belonging to a subfamily of serine/threonine kinases containing SH2-like (Src homology 2-like) domains. The gene was shown to be amplified and overexpressed in 2 of 8 ovarian carcinoma cell lines and 2 of 15 primary ovarian tumors. Overexpression contributes to the malignant phenotype of a subset of human ductal pancreatic cancers. The encoded protein is a general protein kinase capable of phophorylating several known proteins. [provided by RefSeq, Jul 2008]

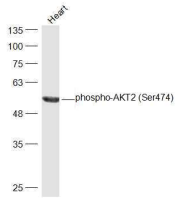
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

Reactivity: Mouse, Rat (predicted: Human, Rabbit, Pig, Sheep, Cow, Chicken, Dog)

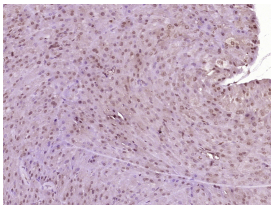
Predicted MW.: 56 kDa

Subcellular Location: Cell membrane ,Cytoplasm ,Nucleus

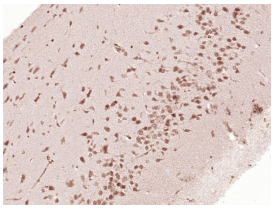
VALIDATION IMAGES



Sample: Heart (Mouse) Lysate at 40 ug Primary: Anti-phospho-AKT2 (Ser474) (bs-4089R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 56 kD Observed band size: 56 kD



Paraformaldehyde-fixed, paraffin embedded (Mouse pancreas); 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 (phospho-AKT2 (Ser474)) Polyclonal Antibody, Unconjugated (bs-4089R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Mouse 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 (phospho-AKT2 (Ser474)) Polyclonal Antibody, Unconjugated (bs-4089R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

SELECTED CITATIONS

- **[IF=19.456]** Shi-Yang Feng. et al. Increased joint loading induces subchondral bone loss of temporomandibular joint via the RANTES-CCRs-Akt2 axis. J CLIN INVEST. 2022 Sep;():158874 IF ;Rat. 36173680
- **[IF=5.714]** Chenglin Li. et al. Ranitidine as an adjuvant regulates macrophage polarization and activates CTLs through the PI3K-Akt2 signaling pathway. INT IMMUNOPHARMACOL. 2023 Mar;116:109729 WB ;Mouse. 10.1016/j.intimp.2023.109729
- **[IF=4.4]** Shi-Yang Feng. et al.Akt2 inhibition alleviates temporomandibular joint osteoarthritis by preventing

subchondral bone loss.ARTHRITIS RESEARCH & THERAPY.2025 Feb 27;27(1):43. IHC, IF ;Rat. 40016746

- **[IF=2.895]** Wang K et al. Neat1-miRNA204-5p-PI3K-AKT axis as a potential mechanism for Photodynamic Therapy treated Colitis in Mice. (2018) Photodiagnosis Photodyn Ther. Oct 29. WB ;Mouse. 30385297