

Phospho-MAPKAPK2 (Thr222) Rabbit pAb

Catalog Number: bs-3261R

Target Protein: Phospho-MAPKAPK2 (Thr222)

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

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

Reactivity: Mouse, Rat, Monkey (predicted:Human, Rabbit, Cow, Dog)

Predicted MW: 46 kDa

Entrez Gene: 9261

Swiss Prot: P49137

Source: KLH conjugated synthesised phosphopeptide derived from human MAPKAPK2 around the phosphorylation site of Thr222: LT(p-T)PC.

Purification: affinity purified by Protein A

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

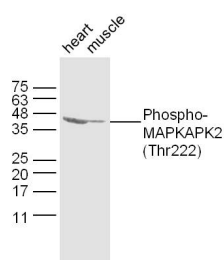
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: MAP kinase activated protein kinase 2 (MAPKAP Kinase 2), also known as p45 hsp27 kinase, is a 45-54 kDa serine/threonine protein kinase that contains a proline rich sequence and two putative SH3 binding sites. MAPKAP Kinase 2 is activated in response to stress, IL1 and TNF, possibly catalyzed by p38/Hog dependent phosphorylation. One of the major substrates of MAPKAP Kinase 2 is hsp27, which stimulates actin polymerization in order to facilitate recovery from destruction of cytoskeleton during cellular stresses. MAPKAP2 is implicated in several disorders including ischemic brain injury and heart failure and has been shown to be important in regulating stress resistance and the production of TNF alpha.

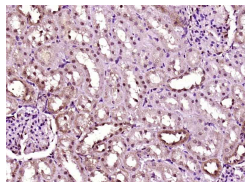
VALIDATION IMAGES



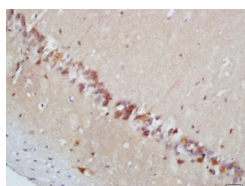
Sample: Lung (Mouse) Lysate at 30 ug Lymph (Mouse) Lysate at 30 ug Bone (Mouse) Lysate at 30 ug Spleen (Mouse) Lysate at 30 ug Primary: Anti- Phospho-MAPKAPK2(Thr222) (bs-3261R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 46 kD Observed band size: 46 kD



Sample: Heart (Mouse) Lysate at 30 ug Muscle (Mouse) Lysate at 30 ug Primary: Anti- Phospho-MAPKAPK2(Thr222) (bs-3261R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 46 kD Observed band size: 46 kD



Paraformaldehyde-fixed, paraffin embedded (Rat 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 (Phospho-MAPKAPK2 (Thr222)) Polyclonal Antibody, Unconjugated (bs-3261R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Tissue/cell: mouse brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-Phospho-MAPKAPK2 (Thr222) Polyclonal Antibody, Unconjugated(bs-3261R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

PRODUCT SPECIFIC PUBLICATIONS

[IF=4.26] Rosenzweig, Derek H., et al. "Mechanical injury of bovine cartilage explants induces depth-dependent, transient changes in MAP kinase activity associated with apoptosis." *Osteoarthritis and Cartilage* (2012). WB ; ="Bovine" . 22935788