**bs-3082R** **[ Primary Antibody ]**

# phospho-Caspase-9 (Thr125) Rabbit pAb

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

## DATASHEET

**Host:** Rabbit **Isotype:** IgG

**Clonality:** Polyclonal

**GeneID:** 842 **SWISS:** P55211

**Target:** Caspase-9 (Thr125)

**Immunogen:** KLH conjugated Synthesised phosphopeptide derived from human Caspase-9 around the phosphorylation site of Thr125: PE(p-T)PR.

**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:** Caspase 9 (also known as ICE like apoptotic protease 6 (ICE LAP6), apoptotic protease Mch6, and apoptotic protease activating factor 3 (Apaf3)) is a member of the peptidase family C14 that contains a CARD domain. This caspase is active as a heterotetramer and has been reported to have two isoforms. ProCaspase 9 has been reported to be approximately 47 kD. This caspase is present in the cytosol and, upon activation, translocates to the mitochondria. Caspase 9 is involved in the caspase activation cascade responsible for apoptosis execution and cleaves/activates Caspase 3 and Caspase 6. Caspase 9 is inhibited by the dominant negative isoform, BclXL, cIAP1, cIAP2, XIAP, and Livin. This caspase becomes activated when recruited to Apaf1/cytochrome c complex, and following cleavage by Apaf1, granzyme B, Caspase 3, possibly Caspase 8 and Caspase 10 into large p37 and small p10 subunits. Caspase 9 intereacts with BIRC7 and has been shown to cleave PARP and vimentin.

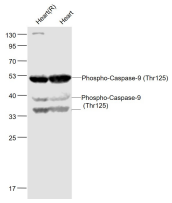
**Applications:** **WB** (1:500-2000)
**IHC-P** (1:100-500)
**IHC-F** (1:100-500)
**IF** (1:100-500)
**Flow-Cyt** (0.2μg /test)

**Reactivity:** Human, Mouse, Rat

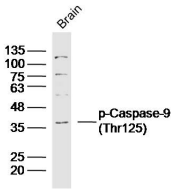
**Predicted MW.:** 35 kDa

**Subcellular Location:** Cytoplasm

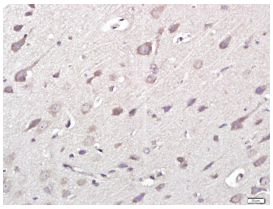
## VALIDATION IMAGES



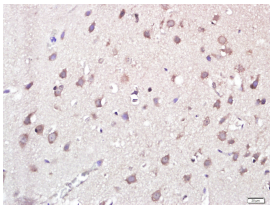

Sample: Heart (Rat) Lysate at 40 ug Heart (Mouse) Lysate at 40 ug Primary: Anti-Phospho-Caspase-9 (Thr125) (bs-3082R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 46-51/35/37 kD Observed band size: 51/37/35 kD




Sample: Brain(Rat)Lysate at 40 ug Primary: Anti-p-Caspase-9 (Thr125)(bs-3082R)at 1/300 dilution Secondary: IRDye800CW Goat Anti-RabbitIgG at 1/20000 dilution Predicted band size: 35kD Observed band size: 35kD



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 (P-caspase-9(Thr125)) Polyclonal Antibody, Unconjugated (bs-3082R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



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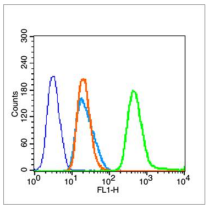


Blank control (blue line): Hela (fixed with 70% ethanol (Overnight at 4°C) and then permeabilized with 90% ice-cold methanol for 30 min on ice). Primary Antibody (green line): Rabbit Anti-Phospho-Caspase-9 (Thr125) antibody (bs-3082R), Dilution: 0.2µg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody (white blue line): Goat anti-rabbit IgG-FITC, Dilution: 1µg /test.

## SELECTED CITATIONS


- **[IF=4.6]** Miaomiao Zhang. et al. Unlocking the Potential of Perillaldehyde: A Novel Mechanism for Chronic Myeloid Leukemia by Targeting HSP70. MOLECULES. 2025 May;30(11):2294 WB ;Human. 40509182
- **[IF=4.375]** Qiu Lei. et al. MiR-526b-3p Inhibits the Resistance of Glioma Cells to Adriamycin by Targeting MAPRE1. J Oncol. 2022;2022:2402212 WB ;Human. 10.1155/2022/2402212
- **[IF=3.8]** Enhua Wei. et al. Paeonol ameliorates hippocampal neuronal damage by inhibiting GRM5/GABBR2/β-arrestin2 and activating the cAMP-PKA signaling pathway in premenstrual irritability rats. BRAIN RES BULL. 2023 Dec;205:110830 WB ;Rat. 38036272
- **[IF=2.133]** Cetintas, Vildan Bozok, et al. "Effects of flavopiridol on critical regulation pathways of CD133high/CD44high lung cancer stem cells." Medicine 95.43 (2016): e5150. ICC ;="Mouse". 27787370
- **[IF=1.4]** Muhammad Abid Hayat. et al. Enhanced apoptosis in damaged laminar tissue of acute laminitis induced by oligofructose overload in dairy cows. VET IMMUNOL IMMUNOP. 2025 Jun;284:110935 WB ;Cow. 40233496