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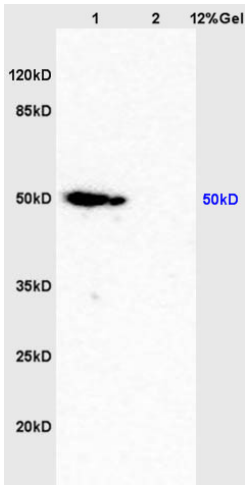
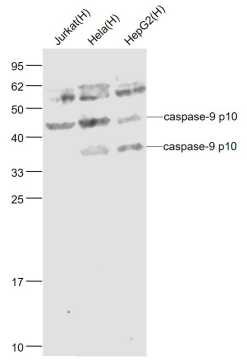
caspase-9 p10 Rabbit pAb

Catalog Number:	bs-8502R
Target Protein:	caspase-9 p10
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 (1:50-200), Flow-Cyt (1μg /Test)
Reactivity:	Human, Mouse, Rat (predicted:Rabbit, Pig, Cow, Chicken, Dog, Horse)
Predicted MW:	10/50 kDa
Entrez Gene:	842
Swiss Prot:	P55211
Source:	KLH conjugated synthetic peptide derived from human caspase-9 subunit p10: 351-416/416.
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:	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.

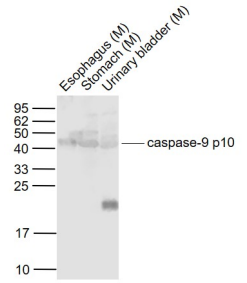
VALIDATION IMAGES



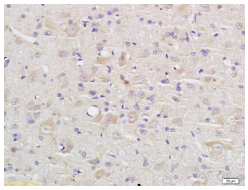
Sample: Brain (Mouse) Lysate at 40 ug Lung (Mouse) Lysate at 40 ug Primary: Anti-caspase-9 p10 (bs-8502R) at 1/300 dilution Secondary: HRP conjugated Goat-Anti-rabbit IgG (bs-0295G-HRP) at 1/5000 dilution Predicted band size: 10/50 kD Observed band size: 50 kD



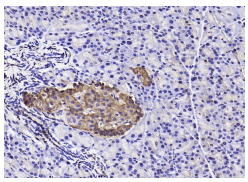
Sample: Jurkat(Human) Cell Lysate at 30 ug Hela(Human) Cell Lysate at 30 ug HepG2(Human) Cell Lysate at 30 ug Primary: Anti-caspase-9 p10 (bs-8502R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 46-51/37/35/10 kD Observed band size: 46/37 kD



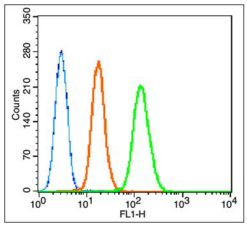
Sample: Lane 1: Esophagus (Mouse) Lysate at 40 ug Lane 2: Stomach (Mouse) Lysate at 40 ug Lane 3: Urinary bladder (Mouse) Lysate at 40 ug Primary: Anti-caspase-9 p10 (bs-8502R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 46-51/37/35/10 kD Observed band size: 46 kD



Tissue/cell: rat 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-caspase-9 p10 Polyclonal Antibody, Unconjugated(bs-8502R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Paraformaldehyde-fixed, paraffin embedded (rat 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 (caspase-9 p10) Polyclonal Antibody, Unconjugated (bs-8502R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Blank control:K562 (fixed with 80% methanol (5 min) and and then permeabilized with 0.01M PBS-Tween for 20 min). Primary Antibody:Rabbit Anti-caspase-9 p10 antibody (bs-8502R,Green); 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-FITC(white blue), Dilution: 1:200 in 1 X PBS containing 0.5% BSA.

PRODUCT SPECIFIC PUBLICATIONS

[IF=5.075] Tianjie Wang. et al. Effect of Fumonisin B1 on Proliferation and Apoptosis of Intestinal Porcine Epithelial Cells. TOXINS. 2022 Jul;14(7):471 WB ; Pig . 35878209

[IF=3.547] You XG et al. Phenylephrine Induces Necroptosis and Apoptosis in Corneal Epithelial Cells Dose-and Time-Dependently. Toxicology. 2019 Oct 9;428:152305. ELISA ; Human . 31605733

[IF=3.8] Qiuyu Zhang. et al. Peptide-directed interference of PD-1/PD-L1 binding increases B lymphocyte function after infectious bursal disease viral infection. POULTRY SCI. 2024 Oct;:104389 WB ; Chicken . 39427422