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## CASP4 Rabbit pAb

Catalog Number: bs-20494R

Target Protein: CASP4

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

Applications: WB (1:500-2000)

Reactivity: Rat (predicted:Mouse)

Predicted MW: 10/43 kDa

Entrez Gene: 12363

Swiss Prot: P70343

Source: KLH conjugated synthetic peptide derived from mouse Caspase-4 subunit p10: 251-350/373.

Purification: affinity purified by Protein A

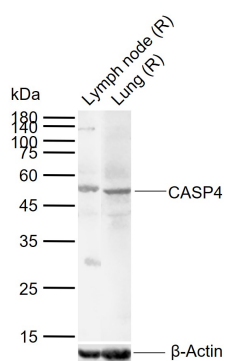
Storage: Preservative: 0.02% Proclin300, Constituents: 1% BSA, 0.01M PBS, pH7.4.

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

**Background:** Caspase 4 is a 377 amino acid protein (43 kDa) that belongs to the Ced3/ICE family of cysteine proteases. Caspase 4 is an "upstream" caspase with a long prodomain. It undergoes a cleavage upon activation, leading to p20 and p10 subunits which have 67% homology to mature Caspase 1 over the equivalent coding sequences. Caspase 4 is capable of cleaving itself and the p30 Caspase 1 precursor, and of inducing apoptosis in transfected insect or COS cells. In high concentrations, it can also cleave the nuclear DNA enzyme PARP but the biological relevance of this cleavage is unclear. Caspase 4 mRNA is found in most tissues examined with the exception of the brain. Highest expression is found in spleen and lung, with moderate expression in heart and liver. Low expression is observed with skeletal muscle, kidney, and testis.

### VALIDATION IMAGES

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Sample: Lane 1: Rat Lymph node tissue lysates Lane 2: Rat Lung tissue lysates Primary: Anti-CASP4 (bs-20494R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 10/43 kDa Observed band size: 47 kDa

## PRODUCT SPECIFIC PUBLICATIONS

**[IF=1.9]** Junyuan Ma. et al. 17β-estradiol inhibits lipopolysaccharide-induced inflammation and pyroptosis of Leydig cells of the domestic yak (*Bos grunniens*) via the SIRT1/Nox4/ROS pathway. *DOMEST ANIM ENDOCRIN.* 2025 Apr;91:106906 WB ; Bovine . 39672084