bs-20016R **[Primary Antibody]**

CARD12 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 58484 **SWISS:** Q9NPP4

Target: CARD12

Immunogen: KLH conjugated synthetic peptide derived from human CARD12: 401-500/1024.

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: NLR family CARD domain-containing protein 4 is a protein that in humans is encoded by the NLRC4 gene. NLRC4 is best associated with triggering formation of the inflammasome. Unlike NLRP3, certain inflammasome-dependent functions of NLRC4 may be carried out independently of the inflammasome scaffold ASC. Human Ced4 homologs include APAF1, NOD1 (CARD4), and NOD2 (CARD15). These proteins have at least 1 N-terminal CARD domain followed by a centrally located nucleotide-binding domain (NBD or NACHT) and a C-terminal regulatory domain, found only in mammals, that contains either WD40 repeats or leucine-rich repeats (LRRs). CARD12 is a member of the Ced4 family and can induce apoptosis.

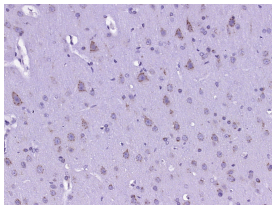
Applications: **IHC-P** (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

Reactivity: Rat (predicted: Human, Mouse)

Predicted MW.: 116 kDa

Subcellular Location: Cytoplasm

VALIDATION IMAGES



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 (CARD12) Polyclonal Antibody, Unconjugated (bs-20016R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

SELECTED CITATIONS

- **[IF=2.903]** Xuling Zhang. et al. Effects of lysophosphatidic acid receptor 5 on NLRC4 inflammasome in brain tissues of transient cerebral ischemia/reperfusion rat:. Hum Exp Toxicol. 2022;(): IF ;Rat. 35230166
- **[IF=2.9]** Ke Liang. et al. Expression and clinical value of NLRP1 and NLRC4 inflammasomes in prostate cancer. ONCOL LETT. 2023 Sep;26(3):1-9 IHC ;Human. 37559581

- **[IF=2]** Fang He. et al.Exogenous L-Serine Alleviates Pasteurella multocida-Induced Inflammation by Reprogramming the Transcription and Metabolism of Macrophages.veterinary sciences. Western blot ;Mouse. 10.3390/vetsci12030254