bsm-54104R **[Primary Antibody]**

phospho-MLKL (Ser345) Recombinant Rabbit mAb

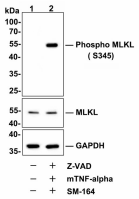
www.bioss.com.cn
sales@bioss.com.cn
techsupport@bioss.com.cn
400-901-9800

DATASHEET

Host: Rabbit
Isotype: IgG
Clonality: Recombinant
GeneID: 74568
Target: phospho-MLKL (Ser345)
Immunogen: A synthesized peptide derived from mouse Mlkl around the phosphorylation site of S345: QN-pS-IS.
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: This gene belongs to the protein kinase superfamily. The encoded protein contains a protein kinase-like domain; however, is thought to be inactive because it lacks several residues required for activity. This protein plays a critical role in tumor necrosis factor (TNF)-induced necroptosis, a programmed cell death process, via interaction with receptor-interacting protein 3 (RIP3), which is a key signaling molecule in necroptosis pathway. Inhibitor studies and knockdown of this gene inhibited TNF-induced necrosis. High levels of this protein and RIP3 are associated with inflammatory bowel disease in children. Alternatively spliced transcript variants have been described for this gene. [provided by RefSeq, Sep 2015].

Applications: **WB** (1:500-2000)
IP (1:10-50)
Reactivity: Mouse (predicted: Human)
Predicted MW: 54 kDa
Subcellular Location: Cell membrane ,Cytoplasm

VALIDATION IMAGES



Western blot analysis of Phospho-MLKL (S345) on L929 cell lysates. Lane 1 : L929 cells, whole cell lysate, 10 µg /lane. Lane 2 : L929 cells were treated with 20 uM Z-VAD for 30 minutes, then added 20 ng/ml mTNF-alpha and 100 nM SM-164 for 4 hours, whole cell lysates, 10 µg/lane.

SELECTED CITATIONS

- **[IF=9.988]** Ying Tu. et al. Developmental exposure to chlorpyrifos causes neuroinflammation via necroptosis in mouse hippocampus and human microglial cell line. ENVIRON POLLUT. 2022 Dec;314:120217 WB ;Mouse, Human. 36155221
- **[IF=5.6]** Yu-qiong He. et al. Ursodeoxycholic acid alleviates sepsis-induced lung injury by blocking PANoptosis via STING pathway. INT IMMUNOPHARMACOL. 2023 Dec;125:111161 IF,WB ;Mouse. 37948864
- **[IF=5.1]** Dan Zhao. et al. Copper exposure induces inflammation and PANoptosis through the TLR4/NF-κB signaling pathway, leading to testicular damage and impaired spermatogenesis in Wilson disease. CHEM-BIOL INTERACT. 2024 Jun;396:111060 WB ;Mouse. 38761876
- **[IF=4.8]** Haoyu Zhang. et al. Timing, initiation and function: An in-depth exploration of the interaction network among neutrophil extracellular traps related genes in acute pancreatitis. INT IMMUNOPHARMACOL. 2024 Nov;141:112923 IHC

;Mouse. 39137629

- **[IF=3.5]** Liangyu Tan. et al. Regulation of RIP1-Mediated necroptosis via necrostatin-1 in periodontitis. J PERIODONTAL RES. 2023 Jun;: IHC,IF ;Mouse. 37334934