

Anti-Phospho-MLKL (Ser345) Antibody (2S387)

Product Details

Ig Type:	IgG
Reactivity:	Mouse
Molecular Weight:	Theoretical: 54 kDa. Actual: 54 kDa.
Clone:	2S387
Purification:	Protein A purified

Applications

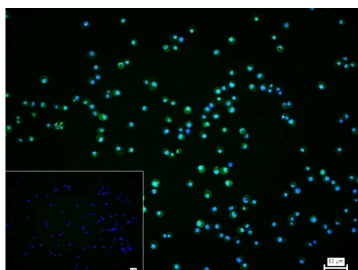
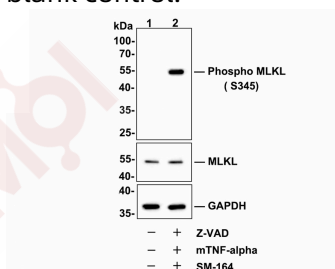
1. Western blot analysis of Phospho-MLKL (S345) on L929 cell lysates.

Lane 1: L929 cells, whole cell lysate, 10 µg/lane.

Lane 2: L929 cells were treated with 20 µM 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.

Verified Activity:

2. 4% Paraformaldehyde-fixed L-929 (treated with 20 ng/ml TNF alpha, 100 nM Smac mimetic, and 20 µM z-VAD for 8 h) (M) cell; Triton X-100 at RT for 20 min; Antibody incubation with (phospho-MLKL (Ser345)) monoclonal Antibody, unconjugated (TMAB-01454) 1:100, 90 min at 37°C; followed by conjugated Goat Anti-Rabbit IgG antibody (green) at 37°C for 90 min, DAPI (blue) was used to stain the cell nucleus. PBS instead of the primary antibody was used as the blank control.



Application: WB, ICC/IF

Recommended WB=1:500-2000, ICC/IF=1:50-200

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: A synthesized peptide: mouse Mlkl around the phosphorylation site of S345

Antigen Species: Mouse

Gene ID: 74568

Uniprot ID: Q9D2Y4

Synonyms: p-MLKL (S345);p-MLKL (Ser345);Mlkl;MLKL (p-Ser345);MLKL (p-S345);Mixed lineage kinase domain-like protein

Biology Area: Necroptosis,SARS Coronavirus,Other Kinases

Research 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].

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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