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-20C	MLKL (D6W1K) Rabbit mAb	
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Applications: Reactivity: W, IP M	Sensitivity: Endogenous	MW (kDa): 54	Source/Isotype: Rabbit IgG	UniProt ID: #Q9D2Y4	Entrez-Gene Id: 74568		
Product Usage Information	Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:50			
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.						
Specificity/Sensitivity	MLKL (D6W1K) Rabbit mAb recognizes endogenous levels of total mouse MLKL protein.						
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of mouse MLKL protein.						
Background	Necroptosis, a regulated pathway for necrotic cell death, is triggered by a number of inflammatory signals including cytokines in the tumor necrosis factor (TNF) family, pathogen sensors such as toll-like receptors (TLRs), and ischemic injury (1,2). The process is negatively regulated by caspases and is initiated through a complex containing the RIP1 and RIP3 kinases, typically referred to as the necrosome. Mixed lineage kinase domain-like protein (MLKL) is a pseudokinase that was identified as a downstream target of RIP3 in the necroptosis pathway (3,4). During necroptosis RIP3 is phosphorylated at Ser227, which recruits MLKL and leads to its phosphorylation at Thr357 and Ser358 (3). Knockdown of MLKL through multiple mechanisms results in inhibition of necroptosis (3-5). While the precise mechanism for MLKL-induced necroptosis is unclear, some studies have shown that necroptosis leads to oligomerization of MLKL and translocation to the plasma membrane, where it affects membrane integrity (6-9).						
Background References	1. Christofferson, D.E. 2. Kaczmarek, A. et al. 3. Sun, L. et al. (2012) 4. Wang, Z. et al. (2013) 5. Wu, J. et al. (2013) 6. Cai, Z. et al. (2014) 7. Chen, X. et al. (2014) 8. Wang, H. et al. (201 9. Dondelinger, Y. et a	(2013) Immunity 3 Cell 148, 213-27. 2) Cell 148, 228-43. Cell Res 23, 994-100 Nat Cell Biol 16, 55- Cell Res 24, 105-2 4) Mol Cell 54, 133-	5. 55. 1. 46.	63-8.			
Species Reactivity	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.						
Applications Key	W: Western Blotting IP: Immunoprecipitation						
Cross-Reactivity Key	M: Mouse						
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