Revision 1

Store at

7928

Mouse Reactive Necroptosis Antibody Sampler Kit



1 Kit (6 x 20 microliters)

Orders:	877-616-CELL (2355) orders@cellsignal.com
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Product Includes	Product #	Quantity	Mol. Wt	Isotype/Source
Phospho-RIP (Ser166) (E7G6O) Rabbit mAb	53286	20 µl	78 kDa	Rabbit IgG
RIP (D94C12) XP [®] Rabbit mAb	3493	20 µl	78 kDa	Rabbit IgG
Phospho-RIP3 (Thr231/Ser232) (E7S1R) Rabbit mAb	91702	20 µl	46-62 kDa	Rabbit IgG
RIP3 (D8J3L) Rabbit mAb	15828	20 µl	46-62 kDa	Rabbit IgG
Phospho-MLKL (Ser345) (D6E3G) Rabbit mAb	37333	20 µl	54 kDa	Rabbit IgG
MLKL (D6W1K) Rabbit mAb	37705	20 µl	54 kDa	Rabbit IgG
Anti-rabbit IgG, HRP-linked Antibody	7074	100 µl		Goat

Please visit cellsignal.com for individual component applications, species cross-reactivity, dilutions, protocols, and additional product information.

Description	The Mouse Reactive Necroptosis Antibody Sampler Kit provides an economical means of detecting total and phosphorylated proteins associated with necroptosis. The kit includes enough antibodies to perform two western blots with each primary antibody.
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. <i>Do not aliquot the antibodies.</i>
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), ischemic injury, and neurodegenerative diseases (1-3). The process is negatively regulated by caspases and is initiated through a complex containing the RIP and RIP3 kinases, typically referred to as the necrosome. Necroptosis is inhibited by a small molecule inhibitor of RIP, necrostatin-1 (Nec-1) (4). RIP is phosphorylated at several sites within the kinase domain that are sensitive to Nec-1, including Ser14, Ser161, and Ser166 (5). During necroptosis, RIP3 is phosphorylated at Ser227, leading to recruitment and phosphorylation of MLKL at Thr357 and Ser358 (6). Phosphorylation of MLKL results in its oligomerization and translocation to the plasma membrane, where it affects membrane integrity (7-10). In mice, activation of RIP3 is associated with phosphorylation at Thr231 and Ser232 (11), and then MLKL is phosphorylated at Ser345 by RIP3 (12).
Background References	 Christofferson, D.E. and Yuan, J. (2010) <i>Curr Opin Cell Biol</i> 22, 263-8. Kaczmarek, A. et al. (2013) <i>Immunity</i> 38, 209-23. Zhou, W. and Yuan, J. (2014) <i>Semin Cell Dev Biol</i> 35, 14-23. Degterev, A. et al. (2008) <i>Nat Chem Biol</i> 4, 313-21. Ofengeim, D. and Yuan, J. (2013) <i>Nat Rev Mol Cell Biol</i> 14, 727-36. Sun, L. et al. (2012) <i>Cell</i> 148, 213-27. Cai, Z. et al. (2014) <i>Nat Cell Biol</i> 16, 55-65. Chen, X. et al. (2014) <i>Not Cell Biol</i> 16, 55-65. Chen, X. et al. (2014) <i>Mol Cell</i> 54, 133-46. Dondelinger, Y. et al. (2014) <i>Cell Rep</i> 7, 971-81. Chen, W. et al. (2013) <i>J Biol Chem</i> 288, 16247-61. Murphy, J.M. et al. (2013) <i>Immunity</i> 39, 443-53.
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