

# Myddosome Complex Antibody Sampler Kit



Orders: 877-616-CELL (2355)

orders@cellsignal.com

Support:

877-678-TECH (8324)

Web:

info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

1 Kit (6 x 20 microliters)

## For Research Use Only. Not for Use in Diagnostic Procedures.

Product Includes	Product #	Quantity	Mol. Wt	Isotype/Source
MyD88 (D80F5) Rabbit mAb	4283	20 μΙ	33 kDa	Rabbit IgG
IRAK1 (D51G7) Rabbit mAb	4504	20 μΙ	78-105 kDa	Rabbit IgG
IRAK2 Antibody	4367	20 μΙ	62 kDa	Rabbit
IRAK4 Antibody	4363	20 μΙ	55 kDa	Rabbit
Phospho-IRAK4 (Thr345/Ser346) (D6D7) Rabbit mAb	11927	20 μΙ	55 kDa	Rabbit IgG
TRAF6 (E2K9D) Rabbit mAb	67591	20 μΙ	60 kDa	Rabbit IgG
TBK1/NAK (E8I3G) Rabbit mAb	38066	20 μΙ	84 kDa	Rabbit IgG
Phospho-TBK1/NAK (Ser172) (D52C2) XP <sup>®</sup> Rabbit mAb	5483	20 μΙ	84 kDa	Rabbit IgG
Anti-rabbit IgG, HRP-linked Antibody	7074	100 μΙ		Goat

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

Description

The Myddosome Complex Antibody Sampler Kit provides an economical means of detecting the components of the myddosome complex using phospho-specific and control antibodies. The kit includes enough antibodies to perform two western blot experiments with each primary antibody.

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl,  $100 \mu g/ml$  BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibodies.

**Background** 

Toll-like receptors (TLRs) are a large family of so-called pattern recognition receptors (PRRs) that detect pathogen associated molecular patterns (PAMPs) and danger associated molecular patterns (DAMPs) (1,2). Upon activation, TLRs initiate two main signaling pathways through their C-terminal cytoplasmic Toll/II-1 receptor (TIR) domain that couples with TIR domain-containing adaptors MyD88 and TRIF. The MyD88-dependent pathway is initiated by the formation of a large oligomeric protein complex termed myddosome. Myddosome is one of so-called supramolecular organizing centers (SMOCs), a signaling organelle that is common for PRRs in the innate immune system. Myddosome formation promotes IRAK4 activation, which in turn activates IRAK1 and later, IRAK2. TRAF6 is then recruited and activated through the binding sites within IRAKs. Activated TRAF6 is released to the cytosol and triggers the IKK complex to activate the NF-kB pathway to mediate the expression of pro-inflammatory cytokines and chemokines (3-7). Recently, it was also found that TBK1 is recruited to the myddosome complex and activated to induce aerobic glycolysis (8).

#### **Background References**

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