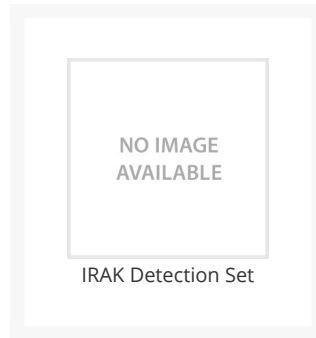




# IRAK Detection Set

Cat. No.: PSI-1802



## Ψ Specifications

<b>SPECIES REACTIVITY:</b>	Human
<b>IMMUNOGEN:</b>	Rabbit polyclonal antibodies were raised against peptides corresponding to amino acid sequences from each of the corresponding proteins.
<b>TESTED APPLICATIONS:</b>	IF, IHC, WB
<b>APPLICATIONS:</b>	These polyclonal antibodies can be used for detection of various IRAK molecules by Western blot at 2 µg/mL to 1 µg/mL, Immunohistochemistry, and Immunofluorescence. Whole cell lysate from HeLa cells can be used as a positive control for each antibody except IRAK-M antibody and MyD88 antibody; murine spleen lysate should be used as a positive control for IRAK-M antibody and Jurkat whole cell lysate should be used for MyD88 antibody.
<b>POSITIVE CONTROL:</b>	1) HeLa Lysate, Cat. No. 1201
	2) Murine Spleen Lysate, Cat. No. 1406.
	3) Jurkat Whole Cell Lysate, Cat. No. 1205.

## Ψ Properties

<b>PURIFICATION:</b>	Antibodies are supplied as affinity chromatography purified IgG.
<b>PHYSICAL STATE:</b>	Liquid

<b>BUFFER:</b>	PBS containing 0.02% sodium azide.
<b>CONCENTRATION:</b>	Antibody 1 mg/mL Peptide 200 µg/mL
<b>STORAGE CONDITIONS:</b>	Stable at 4 °C for three months, store at -20 °C for up to one year.

## Ψ Additional Info

<b>USER NOTE:</b>	Optimal dilutions for each application to be determined by the researcher.
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## Ψ Background and References

<b>BACKGROUND:</b>	<p>Members of the IRAK (IL-1R-associated kinase)/Pelle family play a major role in IL-1R/TLR mediated inflammatory responses and in innate immunity. IRAK and IRAK-2 regulate the activity of a signaling cascade that mediates the activation of NF-κB and MAP kinase. IRAK-4 interacts with and phosphorylates IRAK, while IRAK-M is thought to inhibit the recruitment and activation of IRAK-4 and IRAK. The importance of the IRAK family in inflammation and immunity is illustrated by the fact that animals lacking IRAK-4 are impaired in their responses to viral and bacterial challenges and are completely resistant to LPS challenge.</p> <p><b>For images please see PDF data sheet</b></p>
<b>REFERENCES:</b>	<p>1) Cao Z, Henzel WJ, and Gao X. IRAK: a kinase associated with the interleukin-1 receptor. <i>Science</i> 1996; 271:1128-31.</p> <p>2) Muzio M, Ni J, Feng P, et al. IRAK (Pelle) family member IRAK-2 and MyD88 as proximal mediator of IL-1 signaling. <i>Science</i> 1997; 278:1612-5.</p> <p>3) Li S, Strelow A, Fontana EJ, et al. IRAK-4: a novel member of the IRAK family with the properties of an IRAK kinase. <i>Proc. Natl. Acad. Sci. USA</i> 2002; 99:5567-72.</p> <p>4) Kobayashi K, Hernandez LD, Galan JE, et al. IRAK-M is a negative regulator of Toll-like receptor signaling. <i>Cell</i> 2002; 110:191-202.</p>

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