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TLR Adaptor Detection Set

Cat. No.: PSI-1807

TLR Adaptor Detection Set

Specifications

SPECIES REACTIVITY:	Human
IMMUNOGEN:	Rabbit polyclonal antibodies were raised against peptides corresponding to amino acid sequences from each of the corresponding proteins.
TESTED APPLICATIONS:	IF, IHC, WB
APPLICATIONS:	These polyclonal antibodies can be used for detection of TLR adaptor proteins by Western blot at 1 µg/mL to 4 µg/mL, Immunohistochemistry, and Immunoflourescence.
POSITIVE CONTROL:	1) Human Heart Lysate (for TIRAP), Cat. No. 1301 Human Kidney Lysate (for TIRP), Cat. No. 1305 Human Lung Lysate (for TRIF), Cat. No. 1302 Jurkat Lysate (for MyD88), Cat. No. 1205 Rat Brain Lysate (for TOLLIP), Cat. No. 1463

Properties

PURIFICATION:	Antibodies are supplied as affinity chromatography purified IgG.
PHYSICAL STATE:	Liquid

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

Additional Info

USER NOTE:	Optimal dilutions for each application to be determined by the researcher.

Background and References

BACKGROUND:	Toll-like receptors (TLRs) are evolutionarily conserved pattern-recognition molecules resembling the toll proteins that mediate antimicrobial responses in Drosophila. These proteins recognize different microbial products during infection and serve as an important link between the innate and adaptive immune responses. The TLRs act through adaptor molecules to activate various kinases and transcription factors so the organism can respond to potential infection. These adaptor molecules include MyD88, TIRAP, TIRP, TOLLIP, and TRIF. These molecules interact with and activate the IL-1R-associated kinase (IRAK) family, which then activates TNF receptor associated factor (TRAF)-6, and ultimately leads to the activation of NF-κB. While most TLRs utilize more than one adaptor, certain adaptor molecules are essential for individual TLR signaling, e.g., TLR4 signaling is dependent on TIRP expression. **For images please see PDF data sheet**
REFERENCES:	1) Takeda K, Kaisho T, and Akira S. Toll-like receptors. Annu. Rev. Immunol. 2003; 21:335-76.
	2) Janeway CA Jr. and Medzhitov R. Innate immune recognition. Annu. Rev. Immunol. 2002; 20:197-216.
	3) McGettrick AF and O'Neill LAJ. The expanding family of MyD88-like adaptors in Toll-like receptor signal transduction. Mol. Imm. 2004; 41:577-82.

ANTIBODIES FOR RESEARCH USE ONLY.

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