Mouse/Rat MyD88 Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF3109

DESCRIPTION

Species Reactivity	Mouse/Rat
Specificity	Detects mouse and rat MyD88 in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant mouse MyD88 Met1-Pro296 Accession # Q3U7M4
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

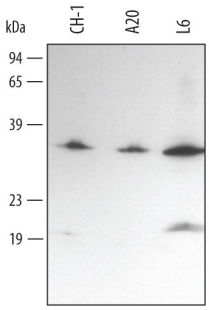
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below
Immunocytochemistry	5-15 µg/mL	See Below
Intracellular Staining by Flow Cytometry	2.5 µg/10^6 cells	See Below
Simple Western	10 µg/mL	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

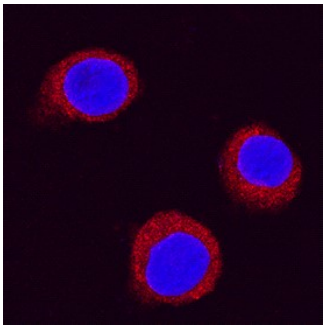
DATA

Western Blot



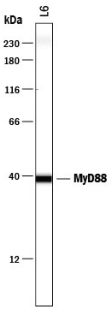
Detection of Mouse/Rat MyD88 by Western Blot. Western blot shows lysates of L6 rat myoblast cell line, A20 mouse B cell lymphoma cell line, and CH-1 mouse B cell lymphoma cell line. PVDF membrane was probed with 1 µg/mL of Goat Anti-Mouse/Rat MyD88 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3109) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF017). A specific band was detected for MyD88 at approximately 34 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 2.

Immunocytochemistry



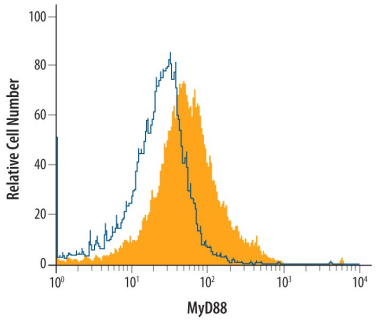
MyD88 in RAW 264.7 Mouse Cell Line. MyD88 was detected in immersion fixed RAW 264.7 mouse monocyte/macrophage cell line using Goat Anti-Mouse/Rat MyD88 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3109) at 1.7 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Goat IgG Secondary Antibody (red; Catalog # NL001) and counterstained with DAPI(blue). Specific staining was localized to cytoplasmic. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

Simple Western



Detection of Rat MyD88 by Simple Western™. Simple Western lane view shows lysates of L6 rat myoblast cell line, loaded at 0.2 mg/mL. A specific band was detected for MyD88 at approximately 39 kDa (as indicated) using 10 µg/mL of Goat Anti-Mouse/Rat MyD88 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3109) followed by 1:50 dilution of HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.

Intracellular Staining by Flow Cytometry



Detection of MyD88 in Mouse Splenocytes by Flow Cytometry. Mouse splenocytes were stained with Goat Anti-Mouse/Rat MyD88 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3109, filled histogram) or control antibody (Catalog # AB-108-C, open histogram), followed by Allophycocyanin-conjugated Anti-Goat IgG Secondary Antibody (Catalog # F0108). To facilitate intracellular staining, cells were fixed with paraformaldehyde and permeabilized with saponin. This application has not been tested in rat samples.

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PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Myeloid Differentiation primary response protein 88 (MyD88) is a 296 amino acid, 34 kDa, ubiquitously expressed, cytoplasmic adaptor protein involved in the signaling of TLR and IL-1 R family members. MyD88 contains an N-terminal death domain and a C-terminal Toll/IL-1 R (TIR) domain. Each domain seems to participate in protein-protein interactions, as the death domain is inactive. Upon Toll receptor ligation, MyD88 is recruited to the receptor and initiates a signaling cascade that results in NKκB and JNK activation. The amino acid sequence of mouse MyD88 is 93% identical to that of rat MyD88.

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