

Macrophage Cell Line Derived from TRIF/MyD88 Double Knockout Mice

Catalog No. NR-15632

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Product Description:

The murine macrophage cell line was derived using primary bone marrow cells from TRIF (toll-interleukin-1 receptor-domain-containing-adaptor-inducing interferon- β)/MyD88 (myeloid differentiation primary response protein 88) double knockout mice. The macrophage cells were immortalized by infection with the ecotropic transforming replication-deficient retrovirus J2 using techniques described in the literature.

Lot: 70026498

Manufacturing Date: 17JUN2019

TEST	SPECIFICATIONS	RESULTS
Growth Properties	Adherent	Adherent
Morphology	Macrophage	Macrophage
PCR Amplification of Extracted DNA¹ MyD88 wild type primers MyD88 knockout primers	No amplicon Expected amplicon	No amplicon (Figure 1) Expected amplicon (Figure 1)
Stimulation of TNF-α¹	Report results	Figure 2
Stimulation of RANTES¹	Report results	Figure 3
Multiplex PCR Amplification of Cytochrome C Oxidase I (COI) Gene	Murine origin No evidence of another species	Murine origin No evidence of another species
Total Cell Count	$> 1.0 \times 10^6$ cells per vial	3.3×10^6 cells per vial
Post-Freeze Viability	$\geq 50\%$	67.8%
Sterility (21-day incubation) Harpo's HTYE broth, 37°C and 26°C, aerobic ² Trypticase Soy broth, 37°C and 26°C, aerobic Sabouraud broth, 37°C and 26°C, aerobic Blood agar, 37°C, aerobic Blood agar, 37°C, anaerobic Thioglycollate broth, 37°C, anaerobic DMEM with 10% FBS, 37°C and 5% CO ₂	No growth No growth No growth No growth No growth No growth No growth	No growth No growth No growth No growth No growth No growth No growth
Mycoplasma Contamination Hoechst DNA stain Agar and broth culture (14-day incubation at 37°C) DNA detection by PCR of extracted Test Article nucleic acid	None detected None detected None detected	None detected None detected None detected

¹Depositor QC is NOT lot specific; same data as NR-15632 lots 60243376 and 64004710.

²Atlas, Ronald M. Handbook of Microbiological Media. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

Figure 1: PCR Amplification

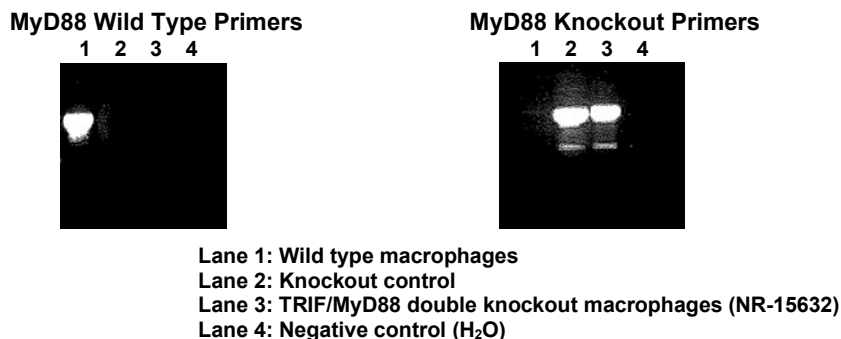
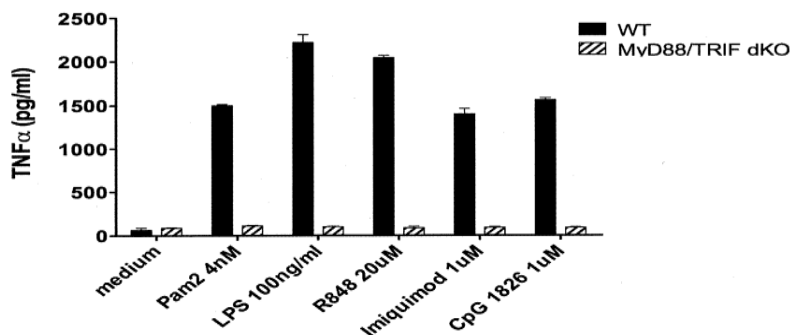
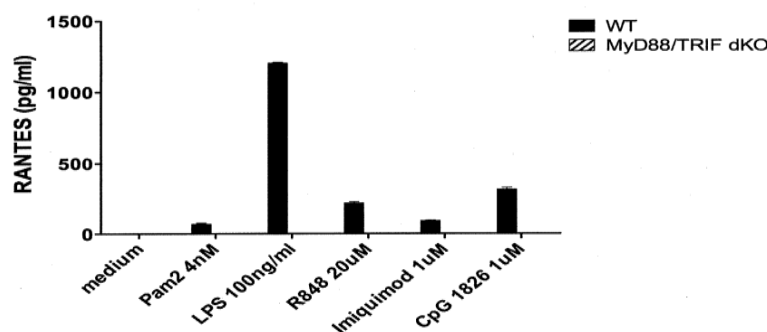

Figure 2: Stimulation of TNF- α


Figure 3: Stimulation of RANTES



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