

Macrophage Cell Line Derived from TLR9 Knockout GFP Mice

Catalog No. NR-19979

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Product Description:

This murine macrophage cell line was derived using primary bone marrow cells from TLR9 (toll-like receptor 9) knockout GFP mice. The macrophage cells were immortalized by infection with the ecotropic transforming replication-deficient retrovirus J2 using techniques described in the literature.

Lot: 70062502

Manufacturing Date: 05SEP2023

TEST	SPECIFICATIONS	RESULTS
Growth Properties	Adherent	Adherent
Morphology	Macrophage	Macrophage
Confirmation of Knockout Phenotype by Indirect Fluorescent Antibody Assay TLR9 ¹ IRF3 ² IRF7 ³	No fluorescence observed Fluorescence observed Fluorescence observed	No fluorescence observed Fluorescence observed Fluorescence observed
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 × 10 ⁶ cells/vial	6.8 × 10 ⁶ cells/vial
Post-Freeze Viability	≥ 50%	80.1%
Sterility (21-day incubation) Harpo's HTYE broth, 37°C and 26°C, aerobic ⁴ Trypticase Soy broth, 37°C and 26°C, aerobic Sabouraud broth, 37°C and 26°C, aerobic Sheep blood agar, 37°C, aerobic Sheep 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

¹Performed with rabbit anti-TLR9 (Novus Biologicals NBP1-76680) primary antibody and goat anti-rabbit IgG (H&L) (Invitrogen 65-6111) secondary antibody (ab)

²Performed with Phospho-IRF3 (Ser 385) (Invitrogen PA5-38285) primary antibody and goat anti-rabbit IgG (H&L) (Invitrogen 65-6111) secondary ab

³Performed with rabbit anti IRF7, BSA-free (Novus Biologicals NBP1-77263 and goat anti-rabbit IgG (H&L) (Invitrogen 65-6111) secondary ab

⁴Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

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