

Macrophage Cell Line Derived from IRF7 Knockout Mice

Catalog No. NR-15636

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Product Description: This murine macrophage cell line was derived using primary bone marrow cells from IRF7 (interferon regulatory factor 7) knockout mice. The macrophage cells were immortalized by infection with the ecotropic transforming replication-deficient retrovirus J2 using techniques described in the literature.

Lot: 70019564

Manufacturing Date: 23OCT2018

TEST	SPECIFICATIONS	RESULTS
Growth Properties	Adherent	Adherent
Morphology	Macrophage	Macrophage
Confirmation of Knockout Phenotype by Indirect Fluorescent Antibody Assay IRF7 ¹ TLR9 ²	No fluorescence observed Fluorescence observed	No 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 per vial	8.8 × 10 ⁶ cells per vial
Post-Freeze Viability	≥ 50%	88.3%
Sterility (21-day incubation) Harpo's HTYE broth ³ , 37°C and 26°C, aerobic 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 No growth No growth
Mycoplasma Contamination Hoechst DNA stain Agar and broth culture (14-day incubation at 37°C) DNA Detection by PCR of Test Article nucleic acid	None detected None detected None detected	None detected None detected None detected

¹Using Anti-IRF7 Antibody, (Novus Biological, NBPI-77263)

²Using TLR9 Antibody (Novus Biological, NBP1-76680)

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

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