

RAW 264.7 cell line

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Contact person

Jerome Hendriks

Organisation

Name of the organisation University of Hasselt (UHasselt)

Department Biomedisch Onderzoeksinstituut

Specific Research Group or Service Immunity and Infection

Country Belgium

Geographical Area Flemish Region

SCOPE OF THE METHOD

The Method relates to	Human health
The Method is situated in	Basic Research
Type of method	In vitro - Ex vivo
Species from which cells/tissues/organs are derived	Mouse (strain balb/c)
Type of cells/tissues/organs	Macrophage-like, Abelson leukemia virus transformed cell line

DESCRIPTION

Method keywords

cell culture

Scientific area keywords

Immunology
macrophage polarization
Cell culture

Method description

Cell line which is commonly used to study biological processes in mouse macrophages. It is a macrophage-like cell line derived from BALB/c mice.

Lab equipment

No special equipment needed besides normal cell culture equipment

Method status

History of use

PROS, CONS & FUTURE POTENTIAL

Advantages

- Easy to grow and maintain ;
- Cell line (no primary cells), so there is no use of animals to obtain the cells ;
- Phenotypic and functional stability ;
- Capable of performing pinocytosis and phagocytosis ;
- Increase nitric oxide (NO) production and enhance phagocytosis upon LPS stimulation ;
- Different KO versions available ;
- Can differentiate towards osteoclasts.

Modifications

Different modified forms of RAW264.7 cells are already available, such as cells which express reporter genes to monitor the activation of NFkB or the interferon regulatory factor pathway. Also, various RAW cells with a KO for a certain gene are available. Potentially additional variants of this cell type can be made in the future.

REFERENCES, ASSOCIATED DOCUMENTS AND OTHER INFORMATION

Links

[RAW 264.7 macrophages](#)

[Questions related to RAW 264.7 Cells](#)

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