

## RAW 264.7 cell line

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### Organisation

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**Department** Biomedisch Onderzoeksinstituut

**Specific Research Group or Service** Immunity and Infection

**Country** Belgium

**Geographical Area** Flemish Region

## SCOPE OF THE METHOD

<b>The Method relates to</b>	Human health
<b>The Method is situated in</b>	Basic Research
<b>Type of method</b>	In vitro - Ex vivo
<b>Species from which cells/tissues/organs are derived</b>	Mouse (strain balb/c)
<b>Type of cells/tissues/organs</b>	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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