



# Neutrophil Marker (NIMP-R14): sc-59338

## BACKGROUND

Neutrophils, also referred to as neutrophil granulocytes, are the most abundant type of white blood cell. As integral parts of the mammalian immune system, neutrophils deal with defense against bacterial infection and other minute inflammatory behaviors. Neutrophils respond to bacterial infection swiftly, and are often the first reaction of the immune system. Endothelium mast cells and macrophages express copious amounts of cytokines, immediately attracting extremely migratory neutrophils to congregate at the site of infection. Capable of ingesting microorganisms and even other particles, individual neutrophils exist only through the execution of one major phagocytic event, utilizing all of their energy reserves in a powerful "respiratory burst". In addition, neutrophils release a variety of proteins in three different types of granules: specific, azurophilic and tertiary granules. Neutrophil antimicrobial products can also destroy host tissues.

## REFERENCES

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6. Alves, G.J., et al. 2006. Cohabitation with a sick cage mate: effects on noradrenaline turnover and neutrophil activity. *Neurosci. Res.* 56: 172-179.
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## SOURCE

Neutrophil Marker (NIMP-R14) is a rat monoclonal antibody raised against purified neutrophils of BALB/c mouse origin.

## PRODUCT

Each vial contains 100  $\mu$ g IgG<sub>2b</sub> in 1.0 ml PBS with < 0.1% sodium azide and 0.1% gelatin.

## STORAGE

Store at 4° C, **\*\*DO NOT FREEZE\*\***. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## APPLICATIONS

Neutrophil Marker (NIMP-R14) is recommended for detection of neutrophils of mouse origin by immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and flow cytometry (1  $\mu$ g per 1 x 10<sup>6</sup> cells).

## SELECT PRODUCT CITATIONS

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## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.