

## Datasheet: MCA2794Z

<b>Description:</b>	RAT ANTI MOUSE INTERLEUKIN-6:Preservative Free
<b>Specificity:</b>	IL-6
<b>Format:</b>	Preservative Free
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	6B4 IGH 54
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	0.1 mg

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			
Immunoprecipitation			▪	
Western Blotting			▪	
Functional Assays	▪			3ug/ml

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

<b>Target Species</b>	Mouse
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on protein G
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	None present
<b>Endotoxin Level</b>	< 0.004 EU/ug
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0mg/ml
<b>Immunogen</b>	Natural partially purified mouse IL-6.

**External Database  
Links**

**UniProt:**

[P08505](#) [Related reagents](#)

**Entrez Gene:**

[16193](#) IL6 [Related reagents](#)

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**Synonyms**

IL-6

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**RRID**

AB\_2127465

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**Specificity**

**Rat anti Mouse Interleukin-6 antibody, clone 6B4 IGH 54** recognizes mouse IL-6 (interleukin-6), a multifunctional pro-inflammatory cytokine secreted by activated T cells, macrophages, endothelial cells, fibroblasts and osteoblasts acts as the primary inducer of the acute phase response in the liver.

IL-6 signals through a membrane bound receptor complex consisting of the ligand-binding IL-6Ra chain (CD126) and the signal-transducing component gp130 (CD130). IL-6 can also stimulate cells expressing gp130 through a soluble IL-6R. IL-6 has been shown to stimulate B cell differentiation and subsequent immunoglobulin production, promote hybridoma growth, as well as regulating bone metabolism and stimulating energy mobilisation in muscle and fatty tissue.

Rat anti Mouse Interleukin-6 antibody, clone 6B4 IGH 54 can be used to neutralize the activity of 50pg/ml of recombinant mouse IL-6 by >95% in a functional assay.

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**Further Reading**

1. Peters, M. *et al.* (1998) Interleukin-6 and soluble interleukin-6 receptor: direct stimulation of gp130 and hematopoiesis. [Blood. 92 \(10\): 3495-504.](#)

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**Storage**

Store at -20°C only.

Storage in frost-free freezers is not recommended.

This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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**Guarantee**

12 months from date of despatch

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**Health And Safety  
Information**

Material Safety Datasheet documentation #10162 available at:  
10162: <https://www.bio-rad-antibodies.com/uploads/MSDS/10162.pdf>

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**Regulatory**

For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Rat IgG (STAR17...)

[FITC](#)

Goat Anti Rat IgG (STAR69...)

[FITC](#)

Goat Anti Rat IgG (STAR131...)

[Alk. Phos.](#), [Biotin](#)

Goat Anti Rat IgG (STAR73...)

[RPE](#)

Rabbit Anti Rat IgG (STAR21...)

[HRP](#)

Goat Anti Rat IgG (STAR72...)

[HRP](#)

Rabbit Anti Rat IgG (STAR16...)

[DyLight®800](#)

Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...) [DyLight®800](#)

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'M367467:200529'

**Printed on 11 Aug 2020**

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