

## Datasheet: MCA3161Z

**BATCH NUMBER 070115**

<b>Description:</b>	MOUSE ANTI HUMAN HEMOGLOBIN SUBUNIT ZETA:Preservative Free
<b>Specificity:</b>	HEMOGLOBIN SUBUNIT ZETA
<b>Other names:</b>	HGZ
<b>Format:</b>	Preservative Free
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	3C4-1D5
<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
Western Blotting	▪			0.1 - 10 ug/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>	Human
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	None present
<b>Approx. Protein Concentrations</b>	Ig concentration 0.5 mg/ml
<b>Immunogen</b>	Recombinant protein corresponding to aa 1-143 of human Hemoglobin subunit zeta.

External Database  
Links

UniProt:

[P02008](#)

[Related reagents](#)

Entrez Gene:

[3050](#)

HBZ

[Related reagents](#)

Synonyms

HBZ2

RRID

AB\_2232734

Fusion Partners

Spleen cells from BALB/c mice were fused with cells from the Sp2/0 myeloma cell line.

Specificity

**Mouse anti Hemoglobin subunit zeta antibody, clone 3C4-1D5** recognizes the human embryonic hemoglobin zeta chain, also known as Zeta-globin, HBAZ or Hb-ζ. Hemoglobin zeta is a 141 amino acid ~14 kDa alpha-type hemoglobin chain present in early embryonic erythrocytes, forming part of the active tetrameric oxygen binding hemoglobin units Gower-1 (ζ2:γ2) Portland-1 (ζ2:ε2) and Portland-2 (ζ2:β2). Gower-2 hemoglobin does not contain any zeta components (α2:ε2) ([Manning et al. 2007](#)). Portland-2 hemoglobin containing 2ζ chains is associated with homozygous alpha thalassemia ([Li et al. 2010](#)).

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.

Guarantee

12 months from date of despatch

Health And Safety  
Information

Material Safety Datasheet documentation #10162 available at:  
<https://www.bio-rad-antibodies.com/SDS/MCA3161Z>  
10162

Regulatory

For research purposes only

## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...) [RPE](#)

Goat Anti Mouse IgG IgA IgM (STAR87...) [HRP](#)

Goat Anti Mouse IgG (STAR76...) [RPE](#)

Rabbit Anti Mouse IgG (STAR13...) [HRP](#)

Goat Anti Mouse IgG (STAR70...) [FITC](#)

Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®550](#),  
[DyLight®650](#), [DyLight®680](#), [DyLight®800](#),  
[FITC](#), [HRP](#)

Rabbit Anti Mouse IgG (STAR9...) [FITC](#)

Goat Anti Mouse IgG (STAR77...) [HRP](#)  
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)  
'M367568:200529'

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