

## Datasheet: MCA6336Z

<b>Description:</b>	MOUSE ANTI HUMAN INTERLEUKIN-7:Preservative Free
<b>Specificity:</b>	IL-7
<b>Format:</b>	Preservative Free
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	2D8-24-25
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	0.5 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
ELISA	▪			1.0 ug/ml - 2.0 ug/ml
Western Blotting	▪			0.25 ug/ml - 0.5 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 - lyophilized
<b>Reconstitution</b>	Reconstitute with 0.5 ml distilled water
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	None present
<b>Carrier Free</b>	Yes
<b>Endotoxin Level</b>	< 1 EU/μg

<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml after reconstitution
<b>Immunogen</b>	<i>E. coli</i> derived recombinant human interleukin-7
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P13232</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">3574</a> IL7    <a href="#">Related reagents</a></p>
<b>Specificity</b>	<p><b>Mouse anti Human interleukin-7 antibody, clone 2D8-24-25</b>, recognizes interleukin-7 (IL-7) a cytokine that plays roles in the early development of B and T cells. It is also required by mature T cells for survival, proliferation and many effector functions during infection and tumor infiltration (<a href="#">Sheikh &amp; Abraham 2019</a>). IL-7 elicits its biological functions through IL-7 receptor <math>\alpha</math>. Upon ligand binding to IL-7 receptor <math>\alpha</math>, the JAK and STAT signaling pathways are activated to subsequently activate downstream signaling pathways to initiate target gene transcription (<a href="#">Kittipatarin &amp; Khaled 2007</a>, <a href="#">Nguyen et al. 2017</a>).</p> <p>IL-7 is mainly produced by stromal cells in the bone marrow and thymus under steady states. However, IL-7 is also present at low levels in the small intestine, lungs, liver and skin where it can modulate T cell responses (<a href="#">Sheikh &amp; Abraham 2019</a>).</p>
<b>Storage</b>	<p>Prior to reconstitution store at -20°C.  After reconstitution store at -20°C.</p> <p>This product should be stored undiluted. Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10294 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA6336Z">https://www.bio-rad-antibodies.com/SDS/MCA6336Z</a> 10294
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	<a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR12...)	<a href="#">RPE</a>
Goat Anti Mouse IgG (STAR70...)	<a href="#">FITC</a>
Goat Anti Mouse IgG IgA IgM (STAR87...)	<a href="#">Alk. Phos.</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR9...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</a>

Rabbit Anti Mouse IgG (STAR13...)

[HRP](#)

Goat Anti Mouse IgG (H/L) (STAR117...)

[Alk. Phos.](#), [DyLight®488](#), [DyLight®550](#),  
[DyLight®650](#), [DyLight®680](#), [DyLight®800](#),  
[FITC](#), [HRP](#)

Goat Anti Mouse IgG (Fc) (STAR120...)

[FITC](#), [HRP](#)

## Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

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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)

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