

## Datasheet: MCA1817

<b>Description:</b>	MOUSE ANTI HUMAN CD8
<b>Specificity:</b>	CD8
<b>Format:</b>	S/N
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	4B11
<b>Isotype:</b>	IgG2b
<b>Quantity:</b>	1 ml

## 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	▪			1/50
Immunohistology - Paraffin (1)	▪			1/50
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting	▪			1/25

Where this antibody 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 antibody for use in their own system using appropriate negative/positive controls.

**(1) This product requires antigen retrieval using heat treatment prior to staining of paraffin sections.**

**Tris/EDTA buffer pH 8.0 is recommended for this purpose.**

<b>Target Species</b>	Human
<b>Product Form</b>	Tissue Culture Supernatant - liquid
<b>Preservative Stabilisers</b>	0.09% Sodium Azide
<b>Immunogen</b>	Synthetic peptide derived from the carboxy terminal region of the human CD8 alpha chain

coupled to a N-terminal cysteine, with the sequence C-KSDGKPSLSARYV. The peptide was coupled to bovine serum albumin and keyhole limpet hemocyanin.

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**External Database Links**

**UniProt:**

[P01732](#)     [Related reagents](#)

[P10966](#)     [Related reagents](#)

**Entrez Gene:**

[925](#) CD8A     [Related reagents](#)

[926](#) CD8B     [Related reagents](#)

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**Synonyms**

CD8B1, MAL

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**RRID**

AB\_322868

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**Fusion Partners**

Spleen cells from immunised mice were fused with cells of a mouse p3-NS1-Ag4-1 myeloma cell line.

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**Specificity**

**Mouse anti Human CD8 antibody, clone 4B11** recognizes the human CD8 cell surface antigen, a ~32 kDa glycoprotein expressed by the cytotoxic/suppressor subset of T-cells and weakly by NK cells. Mouse anti Human CD8 antibody, clone 4B11 was raised based on an earlier successful strategy used to generate rabbit polyclonal antibodies against human CD8 employing the same immunizing peptide ([Mason et al. 1992](#)).

Mouse anti Human CD8 antibody, clone 4B11 has been reported as being suitable for use in Western blotting ([Williamson et al. 1998](#)) .

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**Histology Positive Control Tissue**

Human Tonsil

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**References**

1. Freysdottir, J. *et al.* (2007) Oral biopsies from patients with orofacial granulomatosis with histology resembling Crohn's disease have a prominent Th1 environment. [Inflamm Bowel Dis. 13 \(4\): 439-45.](#)
2. Rees, L.E. *et al.* (2006) Smoking influences the immunological architecture of the human larynx. [Clin Immunol. 118: 342-7.](#)
3. Choi, Y. *et al.* (2009) Immunohistochemical Characterization of the Human Sublingual Mucosa. *Int J Oral Biol* 34: 131-5.
4. Kim, Y.C. *et al.* (2010) Presence of *Porphyromonas gingivalis* and plasma cell dominance in gingival tissues with periodontitis. [Oral Dis. 16: 375-81.](#)
5. Ruf, M.T. *et al.* (2011) Secondary buruli ulcer skin lesions emerging several months after completion of chemotherapy: paradoxical reaction or evidence for immune protection? [PLoS Negl Trop Dis. 5: e1252.](#)
6. Matsuura, E. *et al.* (2017) Dynamic acquisition of HTLV-1 tax protein by mononuclear phagocytes: Role in neurologic disease. [J Neuroimmunol. 304: 43-50.](#)
7. Weber, B. *et al.* (2017) Distinct interferon-gamma and interleukin-9 expression in cutaneous and oral lichen planus. [J Eur Acad Dermatol Venereol. 31 \(5\): 880-6.](#)
8. Choi, Y.S. *et al.* (2016) The presence of bacteria within tissue provides insights into the

pathogenesis of oral lichen planus. [Sci Rep. 6: 29186.](#)

9. Sabolek, M.T.. *et al.* (2019) Communication of CD8<sup>+</sup> T cells with mononuclear phagocytes in multiple sclerosis. [Ann Clin Transl Neurol. 6 \(7\): 1151-64.](#)

10. Kim, H.D. *et al.* (2021) Implication of CD69<sup>+</sup> CD103<sup>+</sup> tissue-resident-like CD8<sup>+</sup> T cells as a potential immunotherapeutic target for cholangiocarcinoma. [Liver Int. 41 \(4\): 764-76.](#)

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<b>Further Reading</b>	1. Mason, D.Y. <i>et al.</i> (1992) Immunohistological detection of human cytotoxic/suppressor T cells using antibodies to a CD8 peptide sequence. <a href="#">J Clin Pathol. 45 (12): 1084-8.</a> 2. Brunati, S. <i>et al.</i> (1987) Production and characterization of a rabbit antiserum to the mouse CD8 antigenic complex by immunization with a synthetic peptide. <a href="#">J Immunol Methods. 96 (1): 97-105.</a>
<b>Storage</b>	Store at +4°C. DO NOT FREEZE. This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use.
<b>Guarantee</b>	Guaranteed until date of expiry. Please see product label.
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10053 available at: 10053: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10053.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10053.pdf</a>
<b>Regulatory</b>	For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	<a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR12...)	<a href="#">RPE</a>
Rabbit Anti Mouse IgG (STAR8...)	<a href="#">DyLight@800</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 (H/L) (STAR117...)	<a href="#">Alk. Phos.</a> , <a href="#">DyLight@488</a> , <a href="#">DyLight@550</a> , <a href="#">DyLight@650</a> , <a href="#">DyLight@680</a> , <a href="#">DyLight@800</a> , <a href="#">FITC</a> , <a href="#">HRP</a>
Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</a>
Rabbit Anti Mouse IgG (STAR13...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (Fc) (STAR120...)	<a href="#">FITC</a> , <a href="#">HRP</a>

### Recommended Negative Controls

[MOUSE IgG2b NEGATIVE CONTROL \(MCA691\)](#)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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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://www.bio-rad-antibodies.com/datasheets)

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