Datasheet: MCA1817T

BATCH NUMBER 158760

Description:	MOUSE ANTI HUMAN CD8
Specificity:	CD8
Format:	S/N
Product Type:	Monoclonal Antibody
Clone:	4B11
Isotype:	IgG2b
Quantity:	0.1 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.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen	▪			1/50
Immunohistology - Paraffin (1)	▪			1/50

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.

Target Species	Human
Product Form	Tissue Culture Supernatant - liquid
Preservative Stabilisers	0.09% Sodium Azide
Immunogen	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.

External Database Links	**UniProt:** P01732 Related reagents P10966 Related reagents **Entrez Gene:** 925 CD8A Related reagents 926 CD8B Related reagents
Synonyms	CD8B1, MAL
RRID	AB_323534
Fusion Partners	Spleen cells from immunised mice were fused with cells of a mouse p3-NS1-Ag4-1 myeloma cell line.
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) .
Histology Positive Control Tissue	Human Tonsil
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 $CD8^+$ T cells with mononuclear phagocytes in multiple sclerosis. Ann Clin Transl Neurol. 6 (7): 1151-64.

Further Reading	1. Mason, D.Y. *et al.* (1992) Immunohistological detection of human cytotoxic/suppressor T cells using antibodies to a CD8 peptide sequence. J Clin Pathol. 45 (12): 1084-8. 2. Brunati, S. *et al.* (1987) Production and characterization of a rabbit antiserum to the mouse CD8 antigenic complex by immunization with a synthetic peptide. J Immunol Methods. 96 (1): 97-105.
Storage	Store at +4°C. DO NOT FREEZE. This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use.
Guarantee	Guaranteed until date of expiry. Please see product label.
Health And Safety Information	Material Safety Datasheet documentation #10053 available at: https://www.bio-rad-antibodies.com/SDS/MCA1817T 10053
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
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
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC, HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP

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