

Datasheet: MCA2631GA

Description:	MOUSE ANTI HUMAN CD272
Specificity:	CD272
Other names:	BTLA
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	MIH26
Isotype:	IgG2a
Quantity:	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.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			1/10 - 1/200
Immunohistology - Frozen	▪			
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting			▪	

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.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	BTLA - transfected L cells.

**External Database
Links**

UniProt:

[Q7Z6A9](#) [Related reagents](#)

Entrez Gene:

[151888](#) BTLA [Related reagents](#)

Fusion Partners Spleen cells from immunized C3H/HeN mice were fused with cells of the P3U1 myeloma cell line.

Specificity **Mouse anti Human CD272 antibody, clone MIH26** detects human CD272, also known as B- and T-lymphocyte attenuator (BTLA). CD272 is a type I transmembrane glycoprotein which is structurally and functionally related to cytotoxic T lymphocyte antigen-4 (CTLA-4), and programmed death-1 (PD-1). CD272 is a T-cell inhibitory receptor that regulates T cell activation through its interaction with herpes virus entry mediator (HVEM), a co-stimulator receptor of the TNFR family.

CD272 may negatively regulate T-cell dependent autoimmune reaction, and polymorphisms in its gene have been associated with Rheumatoid Arthritis.

Flow Cytometry Use 10ul of the suggested working dilution to label 1x10⁶ cells in 100ul.

**Histology Positive
Control Tissue** Human tonsil.

References

1. Otsuki, N. *et al.* (2006) Expression and function of the B and T lymphocyte attenuator (BTLA/CD272) on human T cells. [Biochem Biophys Res Commun. 344 \(4\): 1121-7.](#)
2. Lin, S.C. *et al.* (2006) Association of a BTLA gene polymorphism with the risk of rheumatoid arthritis. [J Biomed Sci. 13 \(6\): 853-60.](#)

Further Reading

1. Zeng, C. *et al.* (2005) BTLA, a new inhibitory B7 family receptor with a TNFR family ligand. [Cell Mol Immunol. 2 \(6\): 427-32.](#)

Storage

Store at +4°C or at -20°C if preferred.
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.

Shelf Life 18 months from date of despatch.

**Health And Safety
Information** Material Safety Datasheet documentation #10040 available at:
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...)

[RPE](#)

Goat Anti Mouse IgG IgA IgM (STAR87...)

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

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

[Alk. Phos.](#), [DyLight@488](#), [DyLight@549](#),
[DyLight@649](#), [DyLight@680](#), [DyLight@800](#),
[FITC](#), [HRP](#)

Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800
Goat Anti Mouse IgG (STAR70...)	FITC
Human Anti Mouse IgG2a (HCA037...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP

Recommended Negative Controls

[MOUSE IgG2a NEGATIVE CONTROL \(MCA929\)](#)

Recommended Useful Reagents

[HISTAR DETECTION SYSTEM \(STAR3000A\)](#)

[HISTAR DETECTION SYSTEM \(STAR3000B\)](#)

[HISTAR DETECTION SYSTEM \(STAR3000C\)](#)

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