

Datasheet: MCA2408GA

Description:	MOUSE ANTI HUMAN CD178
Specificity:	CD178
Other names:	FAS LIGAND
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	10F2
Isotype:	IgG1
Quantity:	0.1 mg

Product Details

RRID AB_566571

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	▪			1/25 - 1/50
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			
Immunoprecipitation	▪			
Western Blotting		▪		

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.

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

Carrier Free Yes

Approx. Protein Concentrations IgG concentration 1.0 mg/ml

**External Database
Links**

UniProt:

[P48023](#) [Related reagents](#)

Entrez Gene:

[356](#) FASLG [Related reagents](#)

Synonyms

APT1LG1, CD95L, FASL, TNFSF6

Fusion Partners

Spleen cells from immunised BALB/c mice were fused with cells of the P3U1 myeloma cell line.

Specificity

Mouse anti Human CD178 antibody, clone 10F2 recognizes the human CD178 cell surface antigen, a ~40 kDa glycoprotein also known as Fas ligand (CD95L).

CD178 is a member of the TNF family, which is expressed by activated T lymphocytes and NK cells. The protein may exist as either a membrane bound or a cleaved soluble form.

CD178 plays an important role in T cell development and cytotoxicity. Binding of CD178 to Fas (CD95) results in the induction of apoptosis.

Mouse anti Human CD178 antibody, clone 10F2 is reported to block the activity of Fas ligand ([Legembre et al. 2002](#)).

Flow Cytometry

Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul.

References

1. Legembre, P. *et al.* (2002) Potentiation of Fas-mediated apoptosis by an engineered glycosylphosphatidylinositol-linked Fas. [Cell Death Differ. 9 \(3\): 329-39.](#)
2. Ferry-Dumazet, H. *et al.* (2002) Resveratrol inhibits the growth and induces the apoptosis of both normal and leukemic hematopoietic cells. [Carcinogenesis. 23 \(8\): 1327-33.](#)
3. Thorén, F.B. *et al.* (2012) Human NK Cells induce neutrophil apoptosis via an NKp46- and Fas-dependent mechanism. [J Immunol. 188 \(4\): 1668-74.](#)
4. Robinet, P. *et al.* (2014) A polysaccharide virulence factor of a human fungal pathogen induces neutrophil apoptosis via NK cells. [J Immunol. 192 \(11\): 5332-42.](#)
5. Pellegrin, S. *et al.* (2012) Differential proteomic analysis of human erythroblasts undergoing apoptosis induced by epo-withdrawal. [PLoS One. 7 \(6\): e38356.](#)
6. Morello, A. *et al.* (2013) Enhancing production and cytotoxic activity of polymeric soluble FasL-based chimeric proteins by concomitant expression of soluble FasL. [PLoS One. 8 \(8\): e73375.](#)
7. Pugholm, L, H. *et al.* (2016) Phenotyping of Leukocytes and Leukocyte-Derived Extracellular Vesicles [J Immunol Res. 2016: 1-12.](#)

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.

Guarantee

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 IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)
Goat Anti Mouse IgG (STAR77...) [HRP](#)
Rabbit Anti Mouse IgG (STAR12...) [RPE](#)
Rabbit Anti Mouse IgG (STAR8...) [DyLight@800](#)
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)
Goat Anti Mouse IgG (STAR76...) [RPE](#)
Goat Anti Mouse IgG (STAR70...) [FITC](#)
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight@488](#), [DyLight@680](#),
[DyLight@800](#), [FITC](#), [HRP](#)

Recommended Negative Controls

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

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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