

Datasheet: MCA2896A488

Description:	HAMSTER ANTI MOUSE CD178:AlexaFluor®488
Specificity:	CD178
Other names:	FAS LIGAND
Format:	ALEXA FLUOR® 488
Product Type:	Monoclonal Antibody
Clone:	MFL4
Isotype:	IgG
Quantity:	100 TESTS/1ml

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	■			Neat

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	Mouse		
Species Cross Reactivity	Reacts with: Rat N.B. Antibody reactivity and working conditions may vary between species.		
Product Form	Purified IgG conjugated to Alexa Fluor 488 - liquid		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	Alexa Fluor®488	495	519
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) 1% Bovine Serum Albumin		
Approx. Protein Concentrations	IgG concentration 0.05mg/ml		
Immunogen	B6 mouse FasL/BHK cells		

**External Database
Links**

UniProt:

[P41047](#) [Related reagents](#)

Entrez Gene:

[14103](#) Fasl [Related reagents](#)

Synonyms

Apt1lg1, Cd95l, Fasl, gld, Tnfsf6

Specificity

Hamster anti Mouse CD178 antibody, clone MFL4 recognizes both mouse and rat CD178, otherwise known as Fas Ligand/ CD95L, a 40 kDa type II transmembrane glycoprotein and member of the TNF/NGF superfamily, expressed by activated T cells and NK cells, which can be induced on a variety of cells by radiation, heat shock, chemotherapeutic agents and viral infection.

CD178 acts as a key effector of cytotoxicity and in the regulation of immune responses. The binding of CD178 to its receptor CD95 (Fas), induces Fas-mediated apoptosis of target cells, and may be involved in the induction of peripheral tolerance and neutrophil chemotaxis. The binding of decoy receptor 3 (DcR3) to CD178 has been shown to inhibit CD178-mediated apoptosis.

Hamster anti Mouse CD178 antibody, clone MFL4 is reported to block CD178/CD95 induced apoptosis.

Flow Cytometry

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

The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity Fc receptors. This may be reduced by using SeroBlock FcR ([BUF041A/B](#)).

References

1. Trinité, B. *et al.* (2000) A subset of cytolytic dendritic cells in rat. [J Immunol. 165 \(8\): 4202-8.](#)
2. Watanabe, T. *et al.* (2002) Administration of an antigen at a high dose generates regulatory CD4+ T cells expressing CD95 ligand and secreting IL-4 in the liver. [J Immunol. 168 \(5\): 2188-99.](#)
3. Kayagaki, N. *et al.* (1997) Polymorphism of murine Fas ligand that affects the biological activity. [Proc Natl Acad Sci U S A. 94 \(8\): 3914-9.](#)

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. This product is photosensitive and should be protected from light. 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.

Acknowledgements

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**Health And Safety
Information**

Material Safety Datasheet documentation #10041 available at:
10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

Related Products

Recommended Negative Controls

[HAMSTER \(ARMENIAN\) IgG NEGATIVE CONTROL:Alexa Fluor® 488 \(MCA2356A488\)](#)

Recommended Useful Reagents

[MOUSE SEROBLOCK FcR \(BUF041A\)](#)

[MOUSE SEROBLOCK FcR \(BUF041B\)](#)

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