

Datasheet: MCA2408EL

Description:	MOUSE ANTI HUMAN CD178:Low Endotoxin
Specificity:	CD178
Other names:	FAS LIGAND
Format:	Low Endotoxin
Product Type:	Monoclonal Antibody
Clone:	10F2
Isotype:	IgG1
Quantity:	0.5 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	■			1/25 - 1/50
Immunohistology - Frozen			■	
Immunohistology - Paraffin			■	
ELISA	■			
Immunoprecipitation	■			
Western Blotting		■		
Functional Assays	■			

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	None present
Carrier Free	Yes
Endotoxin Level	<0.01 EU/ug
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 -20°C only.

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 #10162 available at:
10162: <https://www.bio-rad-antibodies.com/uploads/MSDS/10162.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
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
Rabbit Anti Mouse IgG (STAR13...)	HRP
Human Anti Mouse IgG1 (HCA036...)	HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®549 , DyLight®649 , DyLight®680 , DyLight®800 , FITC , HRP

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:Low Endotoxin \(MCA928EL\)](#)

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