

Datasheet: MCA2310

Description:	MOUSE ANTI PIG CD46
Specificity:	CD46
Other names:	MEMBRANE CO-FACTOR PROTEIN
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	6D8/8
Isotype:	IgG1
Quantity:	0.25 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 (1)			▪	

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

(1)Removal of sodium azide is recommended prior to use in functional assays-Bio-Rad recommend the use of [EQU003](#) for this purpose.

Target Species	Pig
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
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Porcine peripheral blood mononuclear cells

**External Database
Links**

UniProt:

[O02839](#) [Related reagents](#)

Entrez Gene:

[396922](#) CD46 [Related reagents](#)

Synonyms

MCP

Fusion Partners

Spleen cells from immunised BALB/c mice were fused with cells of the X63-Ag.8.653 myeloma cell line

Specificity

Mouse anti Pig CD46, clone 6D8/8 recognizes the porcine CD46 cell surface antigen, a ~50-60 kDa glycoprotein also known as membrane cofactor protein (MCP).

Porcine CD46 is expressed on a wide range of cells including leucocytes, platelets and erythrocytes. CD46 serves as an inhibitor of complement activation on host cells.

Clone 6D8/8 is reported to induce homotypic cell aggregation, ([Bullido *et al.* 2000](#)). .

Mouse anti pig CD46, clone 6D8/8 detects a series of closely apposed bands of approximately 50-60 kDa in pig erythrocyte lysates ([Perez De La Lastra *et al.* 1999](#)).

Flow Cytometry

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

References

1. Bullido, R. *et al.* (2000) Induction of aggregation in porcine lymphoid cells by antibodies to CD46. [Vet Immunol Immunopathol. 73: 73-81.](#)
2. Perez de la Lastra, J.M. *et al.* (1999) Epitope mapping of 10 monoclonal antibodies against the pig analogue of human membrane cofactor protein (MCP). [Immunology 96: 663-670.](#)
3. Dräger, C. *et al.* (2015) Porcine complement regulatory protein CD46 and heparan sulfates are the major factors for classical swine fever virus attachment in vitro. [Arch Virol. 160: 739-46.](#)

Further Reading

1. Piriou-Guzylack, L. (2008) Membrane markers of the immune cells in swine: an update. [Vet Res. 39: 54.](#)

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](#)
 Rabbit Anti Mouse IgG (STAR13...) [HRP](#)
 Human Anti Mouse IgG1 (HCA036...) [HRP](#)

Recommended Negative Controls

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

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