

Datasheet: MCA5979

Description:	MOUSE ANTI KUDOA THYRSITES
Specificity:	KUDOA THYRSITES MYXOSPORE
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	2F4
Isotype:	IgM
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	▪			
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			
Immunoprecipitation			▪	
Western Blotting	▪			
Immunofluorescence	▪			

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	Protozoan
Product Form	Purified IgM - liquid
Preparation	Ig fraction prepared by ammonium sulphate precipitation
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	Ig concentration 1.0 mg/ml
Immunogen	<i>Kudoa thyrmites</i> spores
Fusion Partners	Spleen cells from immunised Balb/c mice were fused with cells of the Mouse X63-Ag8.6.5.3 myeloma cell line.

Specificity **Mouse anti *Kuoda thyrsites* antibody, clone 2F4**, recognizes an antigen on the surface of the myxospores of *Kuoda thyrsites*, a histozoic parasite affecting a range of marine teleost fish species. Mouse anti *Kuoda thyrsites* antibody, clone 2F4 is specific for the *K.thyrsites* and does not recognise the closely related species, *K. paniformis* or *K. crumena* ([Chase et al. 2001](#))

Kuoda thyrsites is a parasite that infects cells and resides intracellularly in the internal muscle fibers of its host. It is responsible for [soft flesh syndrome](#) that occurs post mortem in infected individuals, a condition where the myocytes breakdown, known as myoliquefaction ([Henning et al. 2013](#)). This process is detrimental to the quality of the flesh and significantly effects the market value of the fish.

K. thyrsites is a particular problem in the aquaculture industry for farmed Atlantic salmon (*Salmo salar*) and North American Coho salmon (*Oncorhynchus kisutch*) where infections can result in a major economic impact.

There is an inverse correlation between the number of spores and the quality of flesh ([Dawson-Coates et. al. 2003](#)). Mouse anti *Kuoda thyrsites* antibody, clone 2F4 is useful for detecting *K. thyrsites* myxospores to assess level of infestation.

References

1. Chase, J.C., *et al.* (2001) Analysis of Kudoa thyrsites (Myxozoa: Myxosporea) spore antigens using monoclonal antibodies. [Dis Aquat Organ. 45: 121-129.](#)
2. Henning, S.S., *et al.* (2013) A review of Kudoa-induced myoliquefaction of marine fish species in South Africa and other countries. [Afr J Sci. 109: 1-5.](#)

Further Reading

1. Kent, M.L. (2000) Marine netpen farming leads to infections with some unusual parasites. [Int J Parasitol. 30: 321-6.](#)
2. Dawson-Coates, J.A., *et al.* (2003) The relationship between flesh quality and numbers of Kudoa thyrsites plasmodia and spores in farmed Atlantic salmon, *Salmo salar* L. [J Fish Dis.26: 451-459.](#)

Storage

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

This product should be stored undiluted.

Storage in frost-free freezers is not recommended. 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 available at:
Material Safety Datasheet Documentation #10040 available at:
<https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgM (STAR86...) [RPE](#)
Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)
Goat Anti Mouse IgM (STAR138...) [Alk. Phos.](#)

Human Anti Mouse IgM (HCA040...) [FITC](#), [HRP](#)

Recommended Useful Reagents

[MOUSE ANTI RAINBOW TROUT Ig \(MCA5976\)](#)

[MOUSE ANTI SALMONID Ig \(MCA2182\)](#)

[RABBIT ANTI SALMONID Ig \(AHP761\)](#)

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