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Certificate of Analysis and Data Sheet

Mouse Anti-Meso2 GFP Antibody

Catalog No: 130-00026	Isotype: IgG2a/12C11	Species: <i>Lobophyllia hemprichii</i>	Accession No: 3S05_D
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Description

Monomeric (m)Eos2 is an engineered photoactivatable fluorescent protein widely used for super-resolution microscopy. An optical highlighter isolated from another stony coral (*Lobophyllia hemprichii*), the tetrameric EosFP (named after the goddess of dawn in Greek mythology), behaves similarly to Kaede and the other variants described above. EosFP emits bright green fluorescence at 516 nanometers, and can be photoconverted to orange-red (581 nanometers) fluorescence when illuminated at near-ultraviolet wavelengths. Random and site-directed mutagenesis of tetrameric EosFP was used to generate two dimers and a true monomeric protein named mEosFP.

Applications

Summary of antibody applications and working conditions

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
ELISA	*			1 : 64,000
Western Blotting			*	
Enzyme Immunoassay (EIA)			*	
Immunohistology - paraffin			*	
Immunohistology - resin			*	
Immunoprecipitation			*	
Flow Cytometry			*	
Neutralization			*	

Note: Other applications have not been tested. Optimal dilutions should be determined by each laboratory for each application.

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**



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Preparation

The immunogen was recombinant Meso2 GFP. This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with the immunogen. The IgG fraction of tissue culture supernatant was purified by Protein A / G affinity chromatography.

Specificity

This antibody binds specifically to Meso2 GFP.

Reconstitution

Product is supplied as a powder obtained from lyophilization of purified antibody in PBS without preservatives. Reconstitute the antibody with distilled or de-ionized water to a final concentration of 1 mg/ml.

Storage

Store at 4°C if intended for use within one month, otherwise, store at -20°C to -80°C. The lyophilized antibody is stable for at least 18 months after the date of receipt when stored at -20°C to -80°C. After reconstitution, it can also be aliquoted and stored frozen at -20°C to -80°C in a manual defrost freezer for at least 6 months without detectable loss of activity. Upon reconstitution, the antibody can also be stored for 30 days at 4°C. **Please avoid freeze-thaw cycles, as this will lower the activity of the antibody.**

Reference

1. Mingshu, Zhang; et al. (2012) "Rational design of true monomeric and bright photoactivatable fluorescent proteins." Nature Methods, doi:10.1038/nmeth.2021

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