

## Anti-MIS12 Antibody Picoband® Fluoro488 Conjugated

Catalog Number: A06832-1-Fluoro488

### About MIS12

Protein MIS12 homolog is a protein that in humans is encoded by the MIS12 gene. Mis12 complex is composed of four subunits, Protein MIS12 homolog, Polyamine-modulated factor 1, Kinetochores-associated protein DSN1 homolog, and Kinetochores-associated protein NSL1 homolog (UniProt: Q9H081, Q6P1K2, Q9H410, Q96IY1, respectively) that are encoded by genes known as MIS12 (Gene ID: 79003), PMF1 (Gene ID: 100527963), DSN1 (Gene ID: 79980), and NSL1 (also known as C1orf48, DC31, DC8, MIS14) (Gene ID: 25936) in human. The MIS12 complex is a protein interaction hub for outer kinetochores assembly. This complex acts as the primary microtubule-binding interface at kinetochores and provides a platform to recruit regulatory proteins. In human Mis12 complex subunits are shown to localize with centromere protein A (CENP-A) at inner kinetochores and internally to Ndc80 at outer kinetochores. Mis12 complex plays an essential role in chromosome segregation in vertebrates and contributes to mitotic kinetochores assembly. Reduced levels of Mis12 complex proteins are shown to result in chromosome alignment defects in both human and chicken cells, but spindle bipolarity is not disturbed.

### Overview

Product Name	Anti-MIS12 Antibody Picoband® Fluoro488 Conjugated
Reactive Species	Human
Application	Flow Cytometry
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.02% Na <sub>3</sub> N.
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.
Host	Rabbit
Uniprot ID	Q9H081

### Technical Details

Immunogen	E.coli-derived human MIS12 recombinant protein (Position: M1-K187).
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	Fluoro488

	Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Suggested Dilutions	Flow Cytometry, Optimal dilutions should be determined by end users.

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