

Datasheet for ABIN7599051
anti-MIS12 antibody (AA 1-187)



[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	MIS12
Binding Specificity:	AA 1-187
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MIS12 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF), Flow Cytometry (FACS), Immunocytochemistry (ICC)

Product Details

Purpose:	Anti-MIS12 Antibody Picoband®
Immunogen:	E.coli-derived human MIS12 recombinant protein (Position: M1-K187).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-MIS12 Antibody Picoband® (ABIN7599051). Tested in ELISA, IF, ICC, WB, Flow Cytometry applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	MIS12
Alternative Name:	MIS12 (MIS12 Products)
Background:	<p>Synonyms: Intraflagellar transport protein 88 homolog, Recessive polycystic kidney disease protein Tg737 homolog, Tetratricopeptide repeat protein 10, TPR repeat protein 10, IFT88, TG737, TTC10</p> <p>Tissue Specificity: Expressed in the heart, brain, liver, lung, kidney, skeletal muscle and pancreas.</p> <p>Background: 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.</p>
Molecular Weight:	25 kDa
Gene ID:	79003
UniProt:	Q9H081
Pathways:	M Phase

Application Details

Application Notes:	<p>Western blot, 0.1-0.25 µg/mL, Human</p> <p>Immunocytochemistry/Immunofluorescence, 5 µg/mL, Human</p> <p>Flow Cytometry (Fixed), 1-3 µg/1x10⁶ cells, Human</p> <p>ELISA, 0.1-0.5 µg/mL, -</p> <p>1. Goshima, G., Kiyomitsu, T., Yoda, K., Yanagida, M. Human centromere chromatin protein hMis12, essential for equal segregation, is independent of CENP-A loading pathway. J. Cell Biol.</p>
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Application Details

160: 25-39, 2003. 2. Obuse, C., Iwasaki, O., Kiyomitsu, T., Goshima, G., Toyoda, Y., Yanagida, M.
A conserved Mis12 centromere complex is linked to heterochromatic HP1 and outer
kinetochore protein Zwint-1. Nature Cell Biol. 6: 1135-1141, 2004.

Restrictions: For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage:	4 °C,-20 °C
Storage Comment:	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.