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# Datasheet for ABIN1043902 anti-NYS48/HAUS8 antibody (Internal Region)

2 Images

1 Publication



## Overview

Quantity:	100 µg
Target:	NYS48/HAUS8 (HAUS8)
Binding Specificity:	Internal Region
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NYS48/HAUS8 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA
Product Details	
Immunogen:	Anti-Hice1 Antibody was prepared by repeated immunizations with a synthetic peptide
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Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN1043902 | 09/12/2023 | Copyright antibodies-online. All rights reserved. contributes to the mitotic spindle assembly, maintenance of centrosome integrity and completion of cytokinesis as part of the HAUS augmin-like complex. Normal bipolar spindle formation is critical for accurate chromosome segregation and proper mitotic progression. Failure in this event leads to spindle checkpoint activation and chromosome missegregation that ultimately leads to aneuploidy. Hice1 binds to microtubules directly, and promotes spindle integrity and chromosome stability. Hice1 has also shown to play an important role in targeting the gammaTuRC complex to the mitotic spindle, a step that appears to be required for spindlemediated microtubule generation and normal chromosome segregation. The HAUS augmin-like complex's interaction with microtubules is strong during mitosis, while it is weak or absent during interphase. During interphase, it is primarily cytoplasmic, associating with centrosomes and with the mitotic spindles, preferentially at the spindle pole vicinity. During anaphase and telophase, it additionally associates with the spindle midzone and midbody, respectively. Further characterization of the function of Hice1 will likely be important for better understanding the mechanism of normal mitotic progression and high fidelity chromosome segregation.

Sterility:

Sterile filtered

## Target Details

Target:	NYS48/HAUS8 (HAUS8)
Alternative Name:	HICE1 (HAUS8 Products)
Background:	Hice1 is designed, produced, and is suitable for Cancer, Immunology and Nuclear Signaling research. Hice1 contributes to the mitotic spindle assembly, maintenance of centrosome integrity and completion of cytokinesis as part of the HAUS augmin-like complex. Normal bipolar spindle formation is critical for accurate chromosome segregation and proper mitotic progression. Failure in this event leads to spindle checkpoint activation and chromosome missegregation that ultimately leads to aneuploidy. Hice1 binds to microtubules directly, and promotes spindle integrity and chromosome stability. Hice1 has also shown to play an important role in targeting the γTuRC complex to the mitotic spindle, a step that appears to be required for spindle-mediated microtubule generation and normal chromosome segregation. The HAUS augmin-like complex's interaction with microtubules is strong during mitosis, while it is weak or absent during interphase. During interphase, it is primarily cytoplasmic, associating with centrosomes and with the mitotic spindles, preferentially at the spindle pole vicinity. During
	anaphase and telophase, it additionally associates with the spindle midzone and midbody, respectively. Further characterization of the function of Hice1 will likely be important for better

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	understanding the mechanism of normal mitotic progression and high fidelity chromosome
	segregation.
	Synonyms: HAUS8, HAUS augmin-like complex subunit 8, HEC1/NDC80-interacting
	centrosome-associated protein 1, Sarcoma antigen NY-SAR-48
Gene ID:	93323
NCBI Accession:	NP_219485
UniProt:	Q9BT25
Application Details	
Application Notes:	Hice1 antibody has been tested for use in ELISA and by western blot. Specific conditions for
	reactivity should be optimized by the end user. Expect a band approximately 44.9 kDa in size
	corresponding to human Hice1 protein by western blotting in the appropriate stimulated tissue
	or cell lysate or extract.
Comment:	Gene Name: Hice1
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	0.45 mg/mL
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which
	should be handled by trained staff only.
Storage:	4 °C/-20 °C
Storage Comment:	Store vial at 4 °C prior to restoration. For extended storage aliquot contents and freeze at -20 °C
	or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after
	standing at room temperature. This product is stable for several weeks at 4 °C as an undiluted
	liquid. Dilute only prior to immediate use. Expiration date is one (1) year from date of opening.
Expiry Date:	12 months

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#### Product cited in:

Sarmento, Oneto, Pelicci, Pesce, Scipioni, Faretta, Furia, Dellino, Pelicci, Bianchini, Diaspro, Lanzanò: "Exploiting the tunability of stimulated emission depletion microscopy for superresolution imaging of nuclear structures." in: **Nature communications**, Vol. 9, Issue 1, pp. 3415, (2018) (PubMed).

#### Images





# Western Blotting

**Image 1.** Western Blot of Rabbit Anti-Hice1 antibody. Lane 1: HeLa cell extracts of untransfected cells . Lane 2: transfected HeLa cell extracts with Flag X3-Hice1 WT (WT). Lane 3: transfected HeLa cell extracts with Flag X3-Hice1 S70A mutant (70A). Load: 35 µg per lane. Primary antibody: Hice1 antibody at 0.5 µg/mL for overnight at 4°C. Secondary antibody: Conjugated Goat Anti-Rabbit IgG secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 44.8 kDa, 48 kDa for Hice1. Other band(s): none.

#### **Western Blotting**

Image 2.

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