Datasheet for ABIN1043900

anti-NYS48/HAUS8 antibody (pSer70)

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Overview

Quantity:	100 µg
Target:	NYS48/HAUS8 (HAUS8)
Binding Specificity:	pSer70
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NYS48/HAUS8 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Purpose:	HICE1 phosphoS70 Antibody
Immunogen:	Immunogen: Anti-Hice1 pS70 Antibody was prepared by repeated immunizations with a phosphorylated synthetic peptide corresponding to the region of amino acids containing serine 70 of Hice1. Immunogen Type: Conjugated Peptide
Isotype:	IgG
Cross-Reactivity (Details):	Hice1 pS70 affinity purified antibody is directed against the phosphorylated form of human Hice1 protein at the S70 residue.
Characteristics:	Synonyms: rabbit anti-HICE1 pS70 antibody, HICE-1, HICE 1, HAUS8, HAUS-8, HAUS 8, HAUS augmin-like complex subunit 8, HEC1/NDC80-interacting centrosome-associated protein 1, Sarcoma antigen NY-SAR-48

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Product Details

Purification:	The product was affinity purified from monospecific antiserum by immunoaffinity purification.
Sterility:	Sterile filtered

Target Details

Target:	NYS48/HAUS8 (HAUS8)
Alternative Name:	HAUS8 (HAUS8 Products)
Background:	Background: Hice1 pS70 is designed, produced, and validated as part of a collaboration with the National Cancer Institute (NCI) 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 gamma TuRC 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 understanding the mechanism of normal mitotic progression and high fidelity chromosome segregation.
Gene ID:	93323
NCBI Accession:	NP_219485
UniProt:	Q9BT25

Application Details

Application Notes:	Application Note: Hice1 pS70 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 phosphorylated Hice1 protein by western blotting in the appropriate stimulated tissue or cell lysate or extract. Western Blot Dilution: 1.22 µg/mL

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Application Details

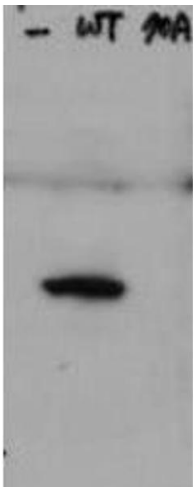
	ELISA Dilution: 1:17,000-1:45,000 Other: User Optimized
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1.22 mg/mL
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: None Preservative: 0.01 % (w/v) Sodium Azide
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 -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. 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.
Expiry Date:	12 months

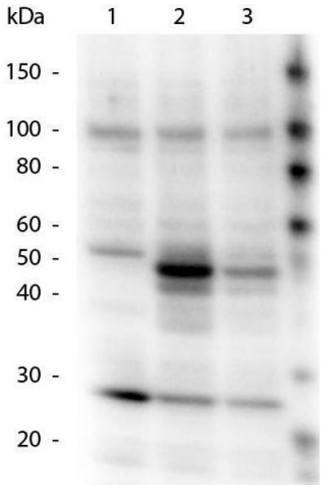
Publications

Product cited in:	Wu, Lin, Wei, Chen, Shan, Lee: "Hice1, a novel microtubule-associated protein required for maintenance of spindle integrity and chromosomal stability in human cells." in: **Molecular and cellular biology**, Vol. 28, Issue 11, pp. 3652-62, (2008) (PubMed).



Western Blotting

Image 1. Western Blot of Rabbit Anti-Hice1 pS70 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 pS70 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 pS70. Other band(s): none.



Western Blotting

Image 2.