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# Product datasheet for TA397438S

## HAUS8 Rabbit Polyclonal Antibody

### Product data:

| | |
|---|---|
| **Product Type:** | Primary Antibodies |
| **Applications:** | ELISA, WB |
| **Recommended Dilution:** | **WB**: 0.5 µg/mL<br>**ELISA**: 1:30,000 - 1:45,000 |
| **Reactivity:** | Human |
| **Host:** | Rabbit |
| **Clonality:** | Polyclonal |
| **Immunogen:** | Anti-Hice1 Antibody was prepared by repeated immunizations with a synthetic peptide corresponding to the region of amino acids containing serine 70 of human Hice1. |
| **Specificity:** | Anti-Hice1 affinity purified antibody is directed against human Hice1 protein. The product was affinity purified from monospecific antiserum by immunoaffinity purification. A BLAST analysis was used to suggest cross reactivity with Hice1 from human based on 100% sequence homology with the immunogen. Reactivity against homologues from other sources is not known. |
| **Formulation:** | 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 |
| **Concentration:** | 1.06 mg/mL - lot specific |
| **Conjugation:** | Unconjugated |
| **Storage:** | Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing. |
| **Stability:** | Expiration date is three (3) months from date of receipt. |
| **Gene Name:** | HAUS augmin like complex subunit 8 |
| **Database Link:** | Entrez Gene 93323 Human<br>Q9BT25 |

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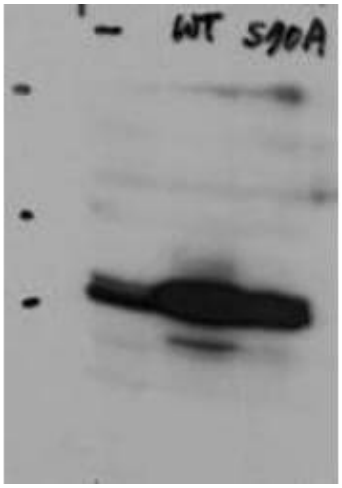
**Background:** Anti-Hice1 is designed, produced, and validated as part of a collaboration between Rockland and the National Cancer Institute (NCI) and is suitable for Cancer, Immunology and Nuclear Signaling research. Hice1 contributes to the mitotic spindle assembly, maintenance of centrosome integrity 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.

**Synonyms:** rabbit anti-HICE1 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

**Note:** 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.

## Product images:




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: IRDye800™ 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.