

## Anti-CASZ1 Antibody

Catalog Number: A06443

### About CASZ1

This antibody is suitable for Cancer, Immunology and Nuclear Signaling research. The human castor zinc finger 1 gene (CASZ1) regulates the production of the castor transcription factor, having increased expression when cells of neural and mesenchymal origin are induced to differentiation. CASZ1 is expressed in a number of human tumors and it localizes to a genomic region frequently lost in tumors of neuroectodermal origin. The CASZ1 gene generates 2 mRNA isoforms hCASZ5 and hCASZ11 that could encode proteins containing 5 or 11 zinc finger motifs, respectively. The proteins may be especially labile. Expect a band at 125 kDa for hCASZ5 and 190 kDa for hCASZ11 in fresh lysates.

### Overview

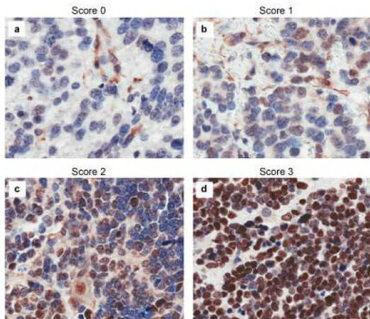
Product Name	Anti-CASZ1 Antibody
Reactive Species	Human
Description	Boster Bio Anti-CASZ1 Antibody (Catalog # A06443). Tested in ELISA, WB applications. This antibody reacts with Human.
Application	ELISA, IF, IHC, WB
Clonality	Polyclonal
Formulation	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2, 0.01% (w/v) Sodium Azide
Storage Instructions	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. Expiration date is one (1) year from date of opening. (Ship on dry ice.)
Host	Rabbit
Uniprot ID	Q86V15

### Technical Details

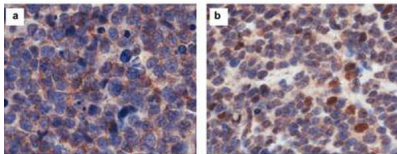
Immunogen	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to an internal region of Human Casz1 protein.
Predicted Reactive Species	Chimpanzee, Drosophila, Macaque
Cross Reactivity	No cross reactivity with other proteins.
Isotype	IgG
Form	Liquid (sterile filtered)
Concentration	1.07 mg/mL by UV absorbance at 280 nm

Purification	This affinity purified antibody is directed against human CASZ1 protein. The product was affinity purified from monospecific antiserum by immunoaffinity purification. A BLAST analysis was used to suggest reactivity with CASZ1 proteins from human, mouse, Drosophila, chimpanzee, and macaque based on a 100% homology. Partial reactivity is expected with horse and dog CASZ1 based on a 92% homology with the immunizing sequence. Cross-reactivity with CASZ1 from other sources has not been determined.
Suggested Dilutions	ELISA: 1:45,000 IHC: User optimized IF Microscopy: User optimized WB: 1:1,000 - 1:5,000 This antibody has been tested for use in ELISA, IHC, IF, and western blotting. This antiserum detects endogenous CASZ1 proteins, both the hCASZ5 and hCASZ11 isoforms. Expect a band approximately 125 kDa for hCASZ5 and 190 kDa for hCASZ11 in size corresponding CASZ1 by western blotting in the appropriate cell lysate or extract. Specific conditions for reactivity should be optimized by the end user.

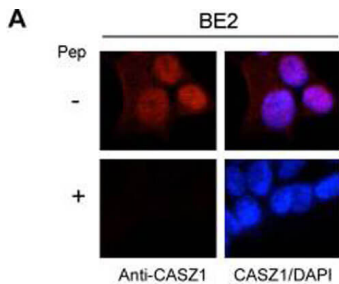
## Anti-CASZ1 Antibody (A06443) Images



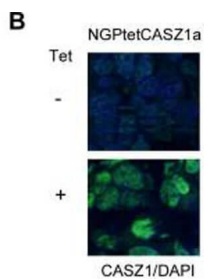
Immunohistochemistry results of Rabbit Anti-hCASZ1 Antibody. Tissue: NB patient tumor. A. Score 0- a rare positive nuclei. B. Score 1- (1-10% positive) equivocal/uninterpretable. C. Score 2- (10-50% positive) weak positive. D. Score 3- (>50% positive) strong positive. Primary Antibody: Rabbit Anti-CASZ1 stained brown. Nucleus counterstained with hematoxylin (blue). Localization: Nuclear.



Immunohistochemistry results of Rabbit Anti-hCasZ1 Antibody. Tissue: NB patient tumor. A. CASZ1 localized exclusively in the cytoplasm. B. CASZ1 localized in the cytoplasm and nucleus. Primary Antibody: Rabbit Anti-CASZ1 stained brown. Nucleus counterstained with hematoxylin (blue).



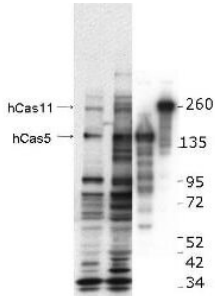
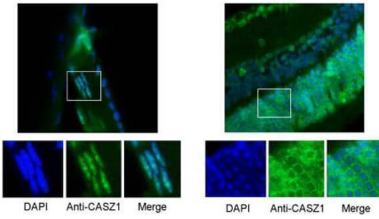
Immunofluorescence results of Endogenous CASZ1. Cells: BE2 cells. With or without Pre-Incubation of Anti-CASZ1 Antibody with CASZ1 Peptide. Staining: Rabbit Anti-CASZ1 Antibody. Chromatin counter stain: DAPI.



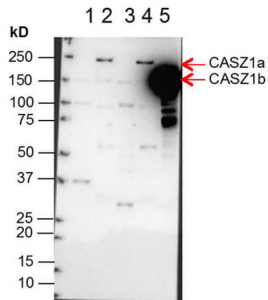
Immunofluorescence results of Rabbit Anti-CASZ1 Antibody. Tissue: Mouse Xenograft tumor of human NB cell line transfected with or without tetracycline inducible CASZ1 (NGPtetCASZ1a). Antibody: Rabbit Anti-CASZ1 Antibody. Counterstain: DAPI.

Immunofluorescence of Rabbit anti-CASZ1 Antibody. Tissue: adult murine ocular tissue. Antibody: Rabbit Anti-CASZ1 Antibody. Counterstain: DAPI. Localization: nucleus in lens epithelia but primarily localizes in the cytoplasm in photoreceptor cells.

**C** Adult mouse eye section



Western blot using Boster's anti-hCASZ1 antibody. This blot shows detection of endogenous and transfected human CASZ1 protein in fresh whole cell lysate (~30 µg). Lane 1: BE2(s) cell lysate. Lane 2: BE2(N) cell lysate. Lane 3: SY5Y transfected with hCASZ5 (125kDa). Lane 4: SY5Y transfected with hCASZ11 (190kDa). Protein was resolved by SDS-PAGE and transferred onto nitrocellulose. After blocking, the membrane was probed with the primary antibody diluted to 1:1,000 for 1.5 hours at room temperature then incubated with HRP-conjugated Goat Anti-Rabbit antibody for 45 min. at room temperature. Personal communication, Carol Thiele, NCI, Bethesda, MD.



Western Blot of Anti-CASZ1 Antibody. Lane 1: NBLS Cytoplasmic (20µg). Lane 2: NBLS Nuclear (3µg). Lane 3: BE2C Cytoplasmic (30µg). Lane 4: BE2C Nuclear (7µg). Lane 5: SY5Y-CASZ1b (10µg). Block: 5% Blotto/TTBS for 1 hour. Primary: Casz1 1:10,000 for 1 hour. Secondary: Goat anti-Rabbit HRP for 1 hour. 240sec exposure. Detects nuclear endogenous CASZ1a and CASZ1b; and transiently transfected CASZ1b isoform. Personal communication and images from Carol Thiele Galetto, NCI.

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**Anti-CASZ1 Antibody**

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