

Datasheet for 600-401-Z39**BCAS2 Antibody****Overview**

Description:	Anti-BCAS2 (RABBIT) Antibody - 600-401-Z39
Item No.:	600-401-Z39
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	BCAS2 was identified through differential display analysis as an mRNA species that was overexpressed in MCF7 and BT-20 breast cancer cell lines. The chromosomal region containing this gene, 1p13.3021, is amplified in these cells lines. BCAS2 is a transcriptional cofactor that enhances estrogen receptor-mediated gene expression, and directly interacts with the tumor suppressor p53 to reduce p53 transcriptional activity by reducing p53 protein level in the absence of DNA damage. Deprivation of BCAS2 through RNA inhibition induces apoptosis in p53-wild type cells, but causes G2-M arrest in p53-null or -mutant cells; this effect was reversed with the expression of ectopic BCAS2. BCAS2 may thus be potentially useful as a therapeutic target in the treatment of cancer.
Synonyms:	BCAS2 Antibody, DAM1, SPF27, Snt309, DAM1, Pre-mRNA-splicing factor SPF27, Breast carcinoma-amplified sequence 2
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	BCAS2
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-BCAS2 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 14 amino acid synthetic peptide near the C-terminus of human BCAS2.
Purity/Specificity:	Anti-BCAS2 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with BCAS2 from other sources has not been determined.
Relevant Links:	• UniProtKB - O75934 • GeneID - 10286 • NCBI - CAG46834

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-BCAS2 Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 26 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:5000 - 1:10000
IF:	20 µg/mL
IHC:	5 µg/mL
WB:	0.5 - 1 µg/mL

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

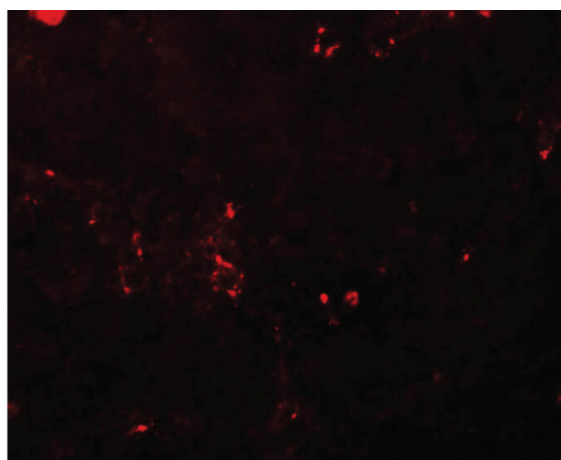
Shipping & Handling

Shipping Condition:	Dry Ice
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Storage Condition: 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.

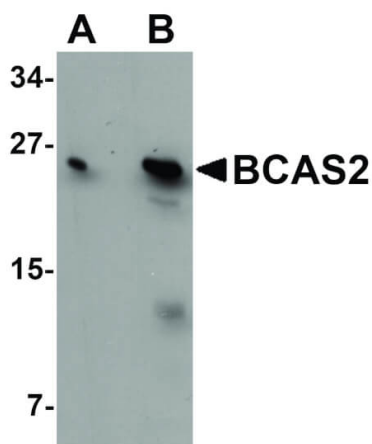
Expiration: Expiration date is one (1) year from date of receipt.

Images



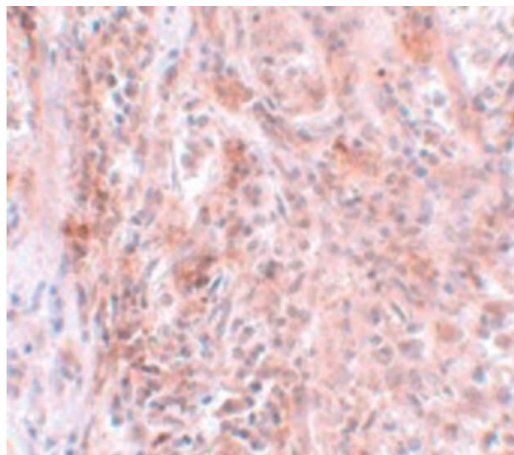
Immunofluorescence Microscopy

Immunofluorescence Microscopy of BCAS2 antibody.
Tissue: Human Breast Carcinoma. Fixation: 0.5% PFA.
Antigen retrieval: not required. Primary antibody: BCAS2 antibody at 20 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: BCAS2 is nuclear. Staining: BCAS2 as red fluorescent signal.



Western Blot

Western Blot of BCAS2 antibody. Lane 1: MCF7 cell lysate with BCAS2 antibody at 0.5 µg/mL. Lane 2: MCF7 cell lysate with BCAS2 antibody at 1 µg/mL. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 26 kDa, 26 kDa for BCAS2. Other band(s): BCAS2 splice variants and isoforms.

**Immunohistochemistry**

Immunohistochemistry of BCAS2 antibody. Tissue: human breast carcinoma. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: BCAS2 antibody at 5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: BCAS2 is nuclear. Staining: BCAS2 as precipitated brown signal with blue nuclear counterstain.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.