

Anti-BCAS3 Antibody
Rabbit polyclonal antibody to BCAS3
Catalog # AP60893

Specification

Anti-BCAS3 Antibody - Product Information

Application	WB
Primary Accession	O9H6U6
Other Accession	O8CCN5
Reactivity	Human, Mouse, Rat, Zebrafish, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	101237

Anti-BCAS3 Antibody - Additional Information

Gene ID 54828

Other Names

Breast carcinoma-amplified sequence 3; GAOB1

Target/Specificity

Recognizes endogenous levels of BCAS3 protein.

Dilution

WB~~WB (1/500 - 1/1000)

Format

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage

Store at -20 °C. Stable for 12 months from date of receipt

Anti-BCAS3 Antibody - Protein Information

Name BCAS3 {ECO:0000312|HGNC:HGNC:14347, ECO:0000312|MIM:607470}

Function

Plays a role in angiogenesis. Participates in the regulation of cell polarity and directional endothelial cell migration by mediating both the activation and recruitment of CDC42 and the reorganization of the actin cytoskeleton at the cell leading edge. Promotes filipodia formation (By similarity). Functions synergistically with PELP1 as a transcriptional coactivator of estrogen receptor- responsive genes. Stimulates histone acetyltransferase activity. Binds to chromatin. Plays a regulatory role in autophagic activity. In complex with PHAF1, associates with the preautophagosomal structure during both non-selective and selective autophagy (PubMed:33499712). Probably binds phosphatidylinositol 3-phosphate (PtdIns3P) which would mediate the recruitment

preautophagosomal structures (PubMed:33499712).

Cellular Location

Nucleus. Cytoplasm. Cytoplasm, cytoskeleton {ECO:0000250|UniProtKB:Q8CCN5}. Preautophagosomal structure. Note=Localizes in the cytoplasm in stationary cells. Translocates from the cytoplasm to the leading edge in motile cells. Colocalizes with microtubules and intermediate filaments in both stationary and motile cells (By similarity) Associates with chromatin. Recruited to estrogen receptor-induced promoters in a PELP1-dependent manner. The BCAS3:PHAF1 complex is recruited to the preautophagosomal structures adjacent to the damaged mitochondria upon mitophagy in a PRKN-PINK1 dependent manner (PubMed:33499712). {ECO:0000250|UniProtKB:Q8CCN5, ECO:0000269|PubMed:17505058, ECO:0000269|PubMed:33499712}

Tissue Location

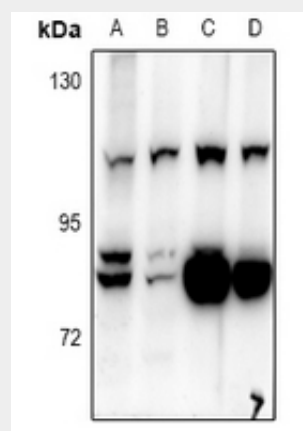
Expressed in stomach, liver, lung, kidney, prostate, testis, thyroid gland, adrenal gland, brain, heart, skeletal muscle, colon, spleen, small intestine, placenta, blood leukocyte and mammary epithelial cells. Expressed in undifferentiated ES cells Expressed in blood islands and nascent blood vessels derived from differentiated ES cells into embryoid bodies (BD). Expressed in endothelial cells. Not detected in brain. Expressed in brain tumors (at protein level). Expressed in brain. Highly expressed in breast cancers and in glioma cell lines.

Anti-BCAS3 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-BCAS3 Antibody - Images



Western blot analysis of BCAS3 expression in A549 (A), HEK293T (B), mouse lung (C), rat lung (D) whole cell lysates.

Anti-BCAS3 Antibody - Background

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human BCAS3. The exact sequence is proprietary.