

BRCAA1 Polyclonal Antibody

Catalog # AP68704

Product Information

Application	WB, E
Primary Accession	Q4LE39
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	147809

Additional Information

Gene ID	51742
Other Names	ARID4B; BRCAA1; RBBP1L1; RBP1L1; SAP180; AT-rich interactive domain-containing protein 4B; ARID domain-containing protein 4B; 180 kDa Sin3-associated polypeptide; Sin3-associated polypeptide p180; Breast cancer-associated antigen BRCAA1; Hi
Dilution	WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications. E~~N/A
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20°C

Protein Information

Name	ARID4B
Synonyms	BRCAA1, RBBP1L1, RBP1L1, SAP180
Function	Acts as a transcriptional repressor (PubMed: 12724404). May function in the assembly and/or enzymatic activity of the Sin3A corepressor complex or in mediating interactions between the complex and other regulatory complexes (PubMed: 12724404). Plays a role in the regulation of epigenetic modifications at the PWS/AS imprinting center near the SNRPN promoter, where it might function as part of a complex with RB1 and ARID4A. Involved in spermatogenesis, together with ARID4A, where it functions as a transcriptional coactivator for AR (androgen receptor) and enhances expression of genes required for sperm maturation. Regulates expression of the tight junction protein CLDN3 in the testis, which is important for integrity of the blood-testis barrier. Plays a role in myeloid homeostasis where it regulates the histone methylation state of bone marrow cells and expression of various genes involved in hematopoiesis. May function as a leukemia

suppressor (By similarity).

Cellular Location

Nucleus {ECO:0000255 | PROSITE-ProRule:PRU00355}. Cytoplasm
Note=Cytoplasmic in breast cancer cells.

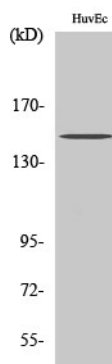
Tissue Location

Highly expressed in the testis and in breast, lung, colon, pancreatic and ovarian cancers. Expressed at low levels in the thymus, prostate and ovary.

Background

Acts as a transcriptional repressor (PubMed: [12724404](#)). May function in the assembly and/or enzymatic activity of the Sin3A corepressor complex or in mediating interactions between the complex and other regulatory complexes (PubMed: [12724404](#)). Plays a role in the regulation of epigenetic modifications at the PWS/AS imprinting center near the SNRPN promoter, where it might function as part of a complex with RB1 and ARID4A. Involved in spermatogenesis, together with ARID4A, where it functions as a transcriptional coactivator for AR (androgen receptor) and enhances expression of genes required for sperm maturation. Regulates expression of the tight junction protein CLDN3 in the testis, which is important for integrity of the blood-testis barrier. Plays a role in myeloid homeostasis where it regulates the histone methylation state of bone marrow cells and expression of various genes involved in hematopoiesis. May function as a leukemia suppressor (By similarity).

Images



Western Blot analysis of various cells using BRCAA1 Polyclonal Antibody

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