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BRCAA1 Rabbit pAb

Catalog # AP98265

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q4LE39
Other Accession	Q4LE39
Reactivity	Human
Predicted	Rat, Mouse, Chicken, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	147809
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human BRCAA1
Epitope Specificity	21-120/1312
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 1 ARID domain.
SUBUNIT	Component of a Sin3A corepressor complex consisting of SIN3A, SAP130, SUDS3/SAP45, SAP180, HDAC1 and HDAC2.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes a protein with sequence similarity to retinoblastoma-binding protein-1. The encoded protein is a subunit of the histone deacetylase-dependant SIN3A transcriptional corepressor complex, which functions in diverse cellular processes including proliferation, differentiation, apoptosis, oncogenesis, and cell fate determination. The gene product is recognized by IgG antibody isolated from a breast cancer patient and appears to be a molecular marker associated with a broad range of human malignancies. Alternate transcriptional splice variants encoding different isoforms have been characterized. [provided by RefSeq, Jul 2008].

Additional Information

Gene ID	51742
Other Names	BCAA; BRCAA1; RBBP1L1; RBP1L1; SAP180; ARI4B_HUMAN; ARID4B; ARID domain-containing protein 4B; 180 kDa Sin3-associated polypeptide (Sin3-associated polypeptide p180); Breast cancer-associated antigen BRCAA1; Histone deacetylase complex subunit SAP180; Retinoblastoma-binding protein 1-like 1; ARI4B_MOUSE; ARI4B_RAT; AT-rich interaction domain 4B; retinoblastoma binding protein 1-like 1; AT rich interactive domain 4B (RBP1-like); AT rich interactive domain 4B (RBP1-like)
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500

Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.