

Datasheet for ABIN7561973

## BRCAA1 Protein (AA 1-1314) (His tag)



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### Overview

Quantity:	1 mg
Target:	BRCAA1 (ARID4B)
Protein Characteristics:	AA 1-1314
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This BRCAA1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

### Product Details

Purpose:	Custom-made recombinat Arid4b Protein expressed in mammalian cells.
Sequence:	<p>MKALDEPPYL TVGTDVSAKY RGAFCEAKIK TAKRLVKVKV TFRHDSSTVE VQDDHIKGPL</p> <p>KVGAIVEVKN LDGAYQEAVI NKLTDASWYT VFDDGDEKT LRRSSLCLKG ERHFAESETL</p> <p>DQLPLTNPEH FGTPVIGKKT NRGRRSNHIP EESSSSSSSD DDEEERKQTD ELLGKVVVCVD</p> <p>YVSLEKKKAM WFPALVPCPD CSDEIAVKKD NILVRSFKDG KFTSVPRKDV HEITSDTVPK</p> <p>PDAVLKQAFD QALEFHKSRA IPANWKTELK EDSSSSSEAE EEEEEDEDEKE KEDNSSEEEE</p> <p>EIEPFPEERE NFLQQLYKFM EDGRTPINKR PVLGYRNLNL FKLFRLVHKL GGFDNIESGA</p> <p>VWKQVYQDLG IPVLNSAAGY NVKCAKKYL YGFEEYCRSA NIDFQMALPE KVLNKPCKDC</p> <p>ENKEVKVKEE SETEIKEVNV EDSKNVMPKE ETPAEDESER KENIKPSLGS KKSLLCIPA</p> <p>QSDEEKEAHI TKLEENENLE DKDGGRARTE EAFSTEVDGE EEQARSGDET NKEEDEDDEE</p> <p>IEEEEEDEEE EDEDEDDDDN NEEEFECYP PGMKVQVRYG RGKNQKMYEA SIKDSDVEGG</p> <p>EALYLVHYCG WNVRYDEWIK ADKIVRPADK NVPKIKHRKK IKNKLDKEKD RDEKYSKNC</p>

KLRRLSKSPF QSNPSPMVSV KLDLADAKNS DTAHIKSIEI TSILNGLQAS ESSAEDSEQE  
DERCTQDVND IGDDESKVEH STHSRNELIS KEEQSSPSLL EENKVHTDLV IAKTVSKSPE  
RLRKDMIAIS EDTDFEEED EITKKRKDVKK DTTDKALKPQ TKRGKRRYCS ADECLQTGSP  
GKKEDRTKSK EPLCTENSSN SSSDEDEEEK SKAKMTPTKK YNGLEEKRS LRTTSFYSGF  
SEVAEKRIKL LNNSDERLQN NRAKDRKDVW SSIQGQWPKK TLKELFSDSD TEAAASPPHP  
APDEGAVEES LQTVAEESCS SPIMELEKPL PASVDNKPIE EKPLEVSDRK TEFPSGSNS  
VLNTPPTTPE SPSSVTITEA SQQQSSVTVS VPLPPNQEEV RSIKSETDST IEVDVSVGEL  
QDLQSEGNSS PAGFDASVSS SSSNQPEPDN PEKACTGQKR VKDTQGVGSS SKKQKRSHKA  
TVVNNKKKGK GTNSSDSEEL SAGESVTKTQ TIKSVPTGMK THNSKSPARV QSPGKGGRNG  
DKDPDLKEPS NRLPKVYKWS FQTSLENMT SAERISILQE KLQEIRKHYL SLKSEVASID  
RRRKRLKKKE RESAATSSSS SSPSSSSITA AVMLTLAEPS MSSASQNGMS VECR **Sequence**  
**without tag. The proposed Purification-Tag is based on experiences with the expression**  
**system, a different complexity of the protein could make another tag necessary. In case you**  
**have a special request, please contact us.**

Characteristics:	<p>Key Benefits:</p> <ul style="list-style-type: none"><li>• Made to order protein - from design to production - by highly experienced protein experts.</li><li>• Protein expressed in mammalian cells and purified in one-step affinity chromatography</li><li>• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.</li><li>• State-of-the-art algorithm used for plasmid design (Gene synthesis).</li></ul> <p>This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.</p>
Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	BRCA1 (ARID4B)
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## Target Details

Alternative Name:	Arid4b ( <a href="#">ARID4B Products</a> )
Background:	<p>AT-rich interactive domain-containing protein 4B (ARID domain-containing protein 4B) (180 kDa Sin3-associated polypeptide) (Sin3-associated polypeptide p180) (Histone deacetylase complex subunit SAP180),FUNCTION: Acts as a transcriptional repressor. 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 (By similarity). 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 (PubMed:17043311). 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 (PubMed:23487765). 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 (PubMed:18728284). {ECO:0000250 UniProtKB:Q4LE39, ECO:0000269 PubMed:17043311, ECO:0000269 PubMed:18728284, ECO:0000269 PubMed:23487765}.</p>
Molecular Weight:	147.6 kDa
UniProt:	<a href="#">A2CG63</a>

## Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.

Handling

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Expiry Date: 12 months