Datasheet for ABIN117916

anti-BRIP1 antibody (Isoform 1)

1 Image

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Overview

Quantity:	0.1 mg
Target:	BRIP1
Binding Specificity:	AA 92-104, Isoform 1
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This BRIP1 antibody is un-conjugated
Application:	Western Blotting (WB), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a recombinant protein corresponding to amino acids 92-104 of isoform 1 of human BACH1 protein.
Sequence:	Protein Sequence: Human BACH1 (isoform 1), 1249 aa, predicted MW 140.8 kDa 1 mssmwseyti ggvkiyfpyk aypsqlammn silrglnskq hcllesptgs gkslallcsa 61 lawqqslsgk padegvseka evqlscccac hskdftnndm nqgtsrhfny pstppserng 121 tsstcqdspe kttlaaklsa kkqasiyrde nddfqvekkr irplettqqi rkrhcfgtev 181 hnldakvdsg ktvklnsple kinsfspqkp pghcsrcccs tkqgnsqess ntikkdhtgk 241 skipkiyfgt rthkqiaqit relrrtaysg vpmtilssrd htcvhpevvg nfnrnekcme 301 lldgkngksc yfyhgvhkis dqhtlqtfqg mckawdieel vslgkklkac pyytareliq 361 dadiifcpyn ylldaqires mdlnlkeqvv ildeahnied caresasysv tevqlrfard 421 eldsmvnnni rkkdheplra vccslinwle anaeylverd yesackiwsg nemlltlhkm 481 gittatfpil qghfsavlqk eekispiygk eearevpvis astqimlkgl fmvldylfrq 541 nsrfaddyki aiqqtyswtn qidisdkngl lvlpknkkrs rqktavhvln fwclnpavaf 601 sdingkvqti vltsgtlspm ksfsselgvt ftiqleanhi

Product Details

	iknsqvwvgt igsgpkgrnl 661 catfqntetf efqdevgall lsvcqtvsqg ilcflpsykl leklkerwls tglwhnlelv 721 ktvivepqgg ektnfdellq vyydaikykg ekdgallvav crgkvsegld fsddnaravi 781 tigipfpnvk dlqvelkrqy ndhhsklrgl lpgrqwyeiq ayralnqalg rcirhrndwg 841 alilvddrfr nnpsryisgl skwvrqqiqh hstfesales laefskkhqk vlnvsikdrt 901 niqdnestle vtslkystpp ylleaashls penfvedeak icvqelqcpk iitknsplps 961 siisrkeknd pvfleeagka ekivisrsts ptfnkqtkrv swssfnslgq yftgkipkat 1021 pelgssensa sspprfktek mesktvlpft dkcessnltv ntsfgscpqs etiisslkid 1081 atltrknhse hplcseeald pdielslvse edkqstsnrd feteaedesi yftpelydpe 1141 dtdeekndla etdrgnrlan nsdcilakdl feirtikevd sarevkaedc idtklngilh 1201 ieeskiddid gnvkttwine lelgktheie iknfkpspsk nkgmfpgfk
Specificity:	This affinity purified antibody is directed against human BACH1 protein. The product was affinity purified from monospecific antiserum by Immunoaffinity purification. A BLAST analysis was used to suggest cross reactivity with BACH1 protein from human (100 % homology) and chimpanzee (92 % homology). Expect reactivity with isoform 1 and isoform 2 of BACH1. Reactivity against BACH1 homologues from rat and mouse is not expected. Reactivity against homologues from other sources is not known.
Purification:	Immunoaffinity chromatography.

Target Details

Target:	BRIP1
Alternative Name:	BRIP1 / FANCJ (BRIP1 Products)
Background:	BACH1 (also known as BRCA1 interacting protein C-terminal helicase 1, BRCA1-interacting protein 1 and BRCA1-associated C-terminal helicase 1) is a member of the RecQ DEAH helicase family and interacts with the BRCT repeats of breast cancer, type 1 (BRCA1). The bound complex is important in the normal doublestrand break repair function of breast cancer, type 1 (BRCA1). The BACH1 gene may be a target of germline cancer-inducing mutations. BACH1 is localized within the nucleus and functions as a DNA-dependent ATPase and 5' to 3' DNA helicase. Two isoforms have been identified for this protein.Synonyms: ATP-dependent RNA helicase BRIP1, BACH1, BRCA1-associated C-terminal helicase 1, BRCA1-interacting protein C-terminal helicase 1, Fanconi anemia group J protein, Protein FACJ
Gene ID:	83990
NCBI Accession:	NP_114432
UniProt:	Q9BX63
Pathways:	DNA Damage Repair

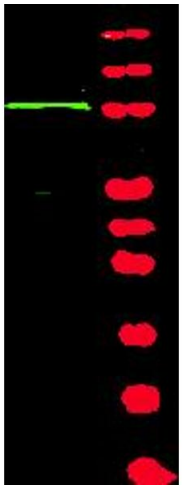
Application Details

Application Notes:	This affinity purified antibody has been tested for use in ELISA (1: 10,000-1: 44,000) andWestern blot (1: 500-1: 2,000). Specific conditions for reactivity should be optimized by the end user. Expect a bandapproximately 105 -140 kDa in size corresponding to isoforms of BACH1 protein by Westernblotting in the appropriate cell lysate or extract. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only

Handling

Concentration:	1.0 mg/mL (by UV absorbance at 280 nm)
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 with 0.01 % (w/v) Sodium Azide as preservative.
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Dilute only prior to immediate use. Avoid cycles of freezing and thawing.
Storage:	-20 °C
Storage Comment:	Store vial at -20° C or below prior to opening. For extended storage aliquot contents and freeze at -20 °C or below.

Images



Western Blotting

Image 1. Western blot using Affinity Purified anti-BACH1 antibody shows detection of a band at ~105 kDa (lane 1) corresponding to human BACH1 present in a 293 whole cell lysate (arrowhead). Lane 2 shows that specific band staining is competed out when the antibody is pre-incubated with the peptide immunogen prior to reaction. Approximately 35 ug of lysate was separated on a 4-20% Tris-Glycine gel by SDS-PAGE and transferred onto nitrocellulose. After blocking the membrane was probed

with the primary antibody diluted to 1:1,000. Reaction occurred 2 h at room temperature followed by washes and reaction with a 1:10,000 dilution of IRDye™800 conjugated Gt-a- Rabbit IgG [H&L] MX for 45 min at room temperature (800 nm channel, green). Molecular weight estimation was made by comparison to prestained MW markers in lane M (700 nm channel, red). IRDye™800 fluorescence image was captured using the Odyssey® Infrared Imaging System developed by LI-COR. IRDye is a trademark of LI-COR, Inc. Other detection systems will yield similar results.