Rabbit BRE Polyclonal Antibody | anti-BRE antibody

BRE Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA325324	**Rabbit**	**Human, Mouse, Rat**	**ELISA, Immunocytochemistry, Immunofluorescence, Western Blot**

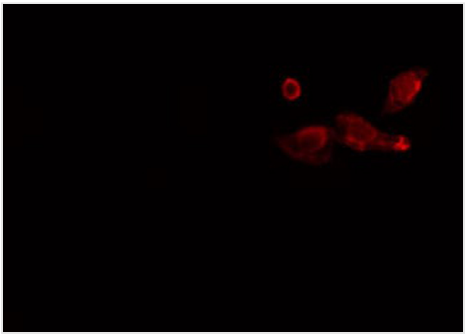
PRODUCT SYNONYMS

BRE; Polyclonal Antibody; BRE Antibody; 6030405P19Rik; AI429776; B830038C02Rik; Brain and reproductive organ expressed (TNFRSF1A modulator); brain and reproductive organ expressed protein; Brain and reproductive organ-expressed protein; BRCA1 A complex subunit BRE; BRCA1-A complex subunit BRE; BRCA1/BRCA2 containing complex subunit 4; BRCA1/BRCA2 containing complex subunit 45; BRCA1/BRCA2-containing complex subunit 45; BRCC4; BRCC45; bre; BRE_HUMAN; anti-BRE antibody

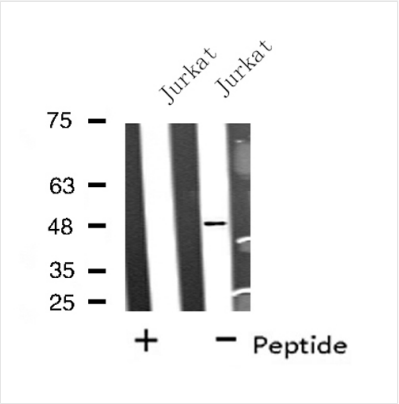
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	BRE antibody detects endogenous levels of total BRE
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	379
Applicable Applications for anti-BRE antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Cytoplasm. Nucleus. Localizes at sites of DNA damage at double-strand breaks.
Tissue Specificity	Expressed in all cell lines examined. Highly expressed in placenta.
Predicted Cross Reactivity	**Zebrafish, Bovine, Sheep, Rabbit, Dog, Chicken, Xenopus**
Similarity	Zebrafish (91%), Bovine (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)
AAA325324 staining Hela cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



WB (Western Blot)
Western blot analysis of extracts from Jurkat cells, using BRE antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-BRE antibody	Function: Component of the BRCA1-A complex, a complex that specifically recognizes 'Lys-63'-linked ubiquitinated histones H2A and H2AX at DNA lesions sites, leading to target the BRCA1-BARD1 heterodimer to sites of DNA damage at double-strand breaks (DSBs). The BRCA1-A complex also possesses deubiquitinase activity that specifically removes 'Lys-63'-linked ubiquitin on histones H2A and H2AX (PubMed:17525341, PubMed:19261746, PubMed:19261749, PubMed:19261748). In the BRCA1-A complex, it acts as an adapter that bridges the interaction between BABAM1/NBA1 and the rest of the complex, thereby being required for the complex integrity and modulating the E3 ubiquitin ligase activity of the BRCA1-BARD1 heterodimer (PubMed:21282113, PubMed:19261748). Component of the BRISC complex, a multiprotein complex that specifically cleaves 'Lys-63'-linked ubiquitin in various substrates (PubMed:19214193, PubMed:24075985, PubMed:25283148, PubMed:26195665). Within the BRISC complex, acts as an adapter that bridges the interaction between BABAM1/NBA1 and the rest of the complex, thereby being required for the complex integrity (PubMed:21282113). The BRISC complex is required for normal mitotic spindle assembly and microtubule attachment to kinetochores via its role in deubiquitinating NUMA1 (PubMed:26195665). The BRISC complex plays a role in interferon signaling via its role in the deubiquitination of the interferon receptor IFNAR1; deubiquitination increases IFNAR1 activity by enhancing its stability and cell surface expression (PubMed:24075985). Down-regulates the response to bacterial lipopolysaccharide (LPS) via its role in IFNAR1 deubiquitination (PubMed:24075985). May play a role in homeostasis or cellular differentiation in cells of neural, epithelial and germline origins. May also act as a death receptor-associated anti-apoptotic protein, which inhibits the mitochondrial apoptotic pathway. May regulate TNF-alpha signaling through its interactions with TNFRSF1A; however these effects may be indirect (PubMed:15465831). Subunit Structure: Component of the ARISC complex, at least composed of UIMC1/RAP80, ABRAXAS1, BRCC3/BRCC36, BABAM2 and BABAM1/NBA1 (PubMed:21282113, PubMed:24075985). Component of the BRCA1-A complex, at least composed of BRCA1, BARD1, UIMC1/RAP80, ABRAXAS1, BRCC3/BRCC36, BABAM2 and BABAM1/NBA1. In the BRCA1-A complex, interacts directly with ABRAXAS1, BRCC3/BRCC36 and BABAM1/NBA1. Binds polyubiquitin. Component of the BRISC complex, at least composed of ABRAXAS2, BRCC3/BRCC36, BABAM2 and BABAM1/NBA1 (PubMed:19214193, PubMed:21282113, PubMed:24075985, PubMed:25283148). Identified in a complex with SHMT2 and the other subunits of the BRISC complex (PubMed:24075985). Component of the BRCA1/BRCA2 containing complex (BRCC), which also contains BRCA1, BRCA2, BARD1, BRCC3/BRCC36 and RAD51. BRCC is a ubiquitin E3 ligase complex that enhances cellular survival following DNA damage. May interact with FAS and TNFRSF1A (PubMed:15465831). Similarity: Contains 2 ubiquitin-conjugating enzyme family-like (UEV-like) regions. These regions lack the critical Cys residues required for ubiquitination but retain the ability to bind ubiquitin. Belongs to the BABAM2 family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	387912573
NCBI GeneID	9577
NCBI Accession #	NP_001248769.1

NCBI GenBank Nucleotide #	NM_001261840.1
UniProt Accession #	Q9NXR7; Q13880; Q4ZFX8; Q53SD0; Q969X9; Q96P06; A8K4X1; D6W562; D6W563
Molecular Weight	Observed: 47 kD Predicted: 44 kDa
NCBI Official Full Name	BRISC and BRCA1-A complex member 2 isoform 4
NCBI Official Synonym Full Names	BRISC and BRCA1 A complex member 2
NCBI Official Symbol	BABAM2
NCBI Official Synonym Symbols	BRE; BRCC4; BRCC45
NCBI Protein Information	BRISC and BRCA1-A complex member 2
UniProt Protein Name	BRISC and BRCA1-A complex member 2
UniProt Gene Name	**BABAM2**
UniProt Synonym Gene Names	BRCC45; BRE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: https://stage.aaabiotech.com/polyclonal/bre-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/325324