

Datasheet for ABIN7145788  
**anti-BRE antibody (AA 94-383)**[Go to Product page](#)

## 3 Images

## Overview

Quantity:	100 µg
Target:	BRE
Binding Specificity:	AA 94-383
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This BRE antibody is un-conjugated
Application:	ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF)

## Product Details

Immunogen:	Recombinant Human BRISC and BRCA1-A complex member 2 protein (94-383AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

## Target Details

Target:	BRE
Alternative Name:	BABAM2 ( <a href="#">BRE Products</a> )
Background:	Background: 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

## Target Details

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).

Aliases: 6030405P19Rik antibody, A1429776 antibody, B830038C02Rik antibody, Brain and reproductive organ expressed (TNFRSF1A modulator) antibody, brain and reproductive organ expressed protein antibody, Brain and reproductive organ-expressed protein antibody, BRCA1 A complex subunit BRE antibody, BRCA1-A complex subunit BRE antibody, BRCA1/BRCA2 containing complex subunit 4 antibody, BRCA1/BRCA2 containing complex subunit 45 antibody, BRCA1/BRCA2-containing complex subunit 45 antibody, BRCC4 antibody, BRCC45 antibody, bre antibody, BRE\_HUMAN antibody

UniProt: [Q9NXR7](#)

Pathways: [Positive Regulation of Response to DNA Damage Stimulus](#)

## Application Details

Application Notes: Recommended dilution: IHC:1:200-1:500, IF:1:50-1:200,

## Application Details

Restrictions: For Research Use only

## Handling

Format: Liquid

Buffer: Preservative: 0.03 % Proclin 300  
Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4

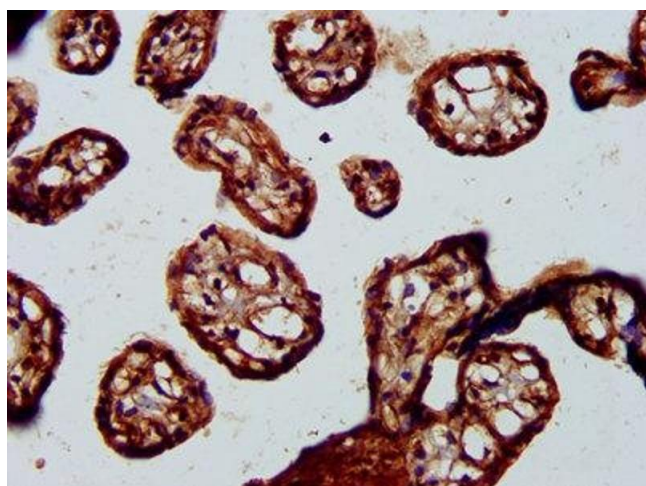
Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C, -80 °C

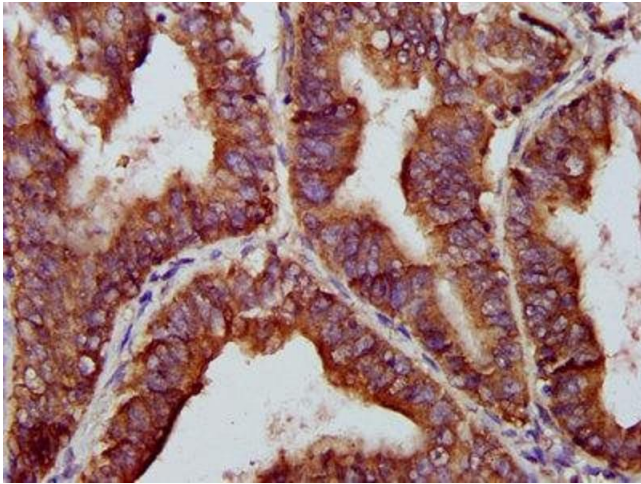
Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

## Images



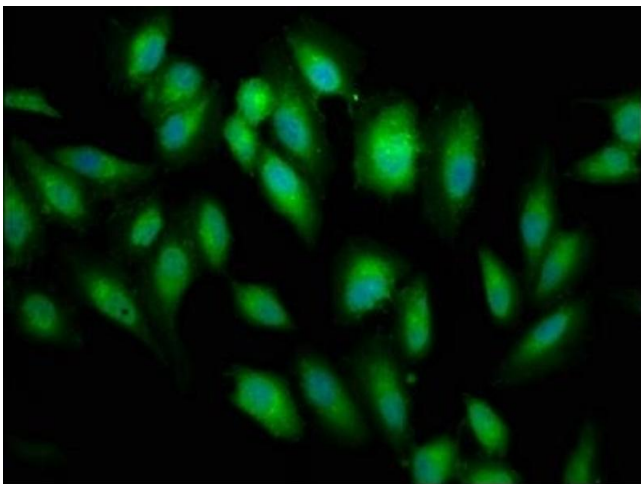
### Immunohistochemistry

**Image 1.** IHC image of ABIN7145788 diluted at 1:200 and staining in paraffin-embedded human placenta tissue performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



#### Immunohistochemistry

**Image 2.** IHC image of ABIN7145788 diluted at 1:200 and staining in paraffin-embedded human endometrial cancer performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



#### Immunofluorescence

**Image 3.** Immunofluorescence staining of HeLa cells with ABIN7145788 at 1:66, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).