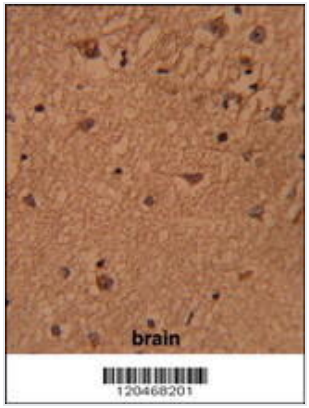
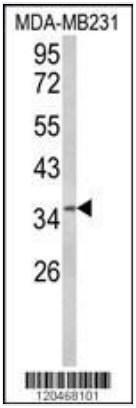
HSPC142 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

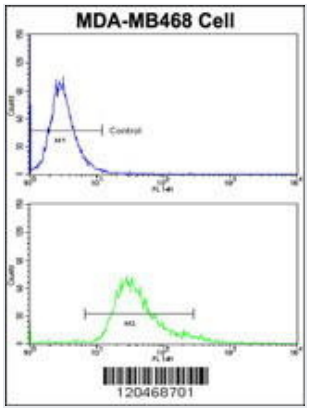
Product Name	HSPC142, Polyclonal Antibody
Full Product Name	HSPC142 (BRCA1-A Complex Subunit MERIT40, Chromosome 19 Open Reading Frame 62, C19orf62, FLJ20571, Mediator of RAP80 Interactions and Targeting Subunit of 40kD, MERIT40, New Component of the BRCA1-A Complex, NBA1) (MaxLight 650)
Product Gene Name	anti-HSPC142 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight650.
Purity/Purification	Purified by Ammonium Sulfate Precipitation.
Specificity	Recognizes human HSPC142.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight650 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	36kDa
OMIM	612766
3D Structure	ModBase 3D Structure for Q9NWV8
Immunogen	Synthetic peptide selected from the center region of human HSPC142 (KLH).
Conjugate	MaxLight650
Note	Preservative Free
Product Categories/Family for anti-HSPC142 antibody	Antibodies; DNA Replication; Repair
Applications Tested/Suitable for anti-HSPC142 antibody	Western Blot (WB), FLISA
Application Notes for anti-HSPC142 antibody	WB: 1:50-1:100 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-HSPC142 antibody	MBS6481203 is an antibody targeting HSPC142. Also known as HSPC142 (BRCA1-A Complex Subunit MERIT40, Chromosome 19 Open Reading Frame 62, C19orf62, FLJ20571, Mediator of RAP80 Interactions and Targeting Subunit of 40kD, MERIT40, New Component of the BRCA1-A Complex, NBA1) (MaxLight 650). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-HSPC142 antibody	1. Shao, G., et.al., Genes Dev. 23(6), 740-754 (2009). 2. Ewing, R.M., et.al., Mol. Syst. Biol. 3, 89 (2007).
Other Notes	Small volumes of anti-HSPC142 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Immunohistochemistry (IHC) of anti-HSPC142 antibody
Formalin-fixed and paraffin-embedded human brain reacted with HSPC142 Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Western Blot (WB) of anti-HSPC142 antibody
Western blot analysis of HSPC142 Antibody (Center) in MDA-MB231 cell line lysates (35ug/lane). HSPC142 (arrow) was detected using the purified Pab.



Flow Cytometry (FC/FACS) of anti-HSPC142 antibody
Flow cytometric analysis of MDA-MB468 cells using HSPC142 Antibody (Center)(bottom histogram) compared to a negative control cell (top histogram)FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HSPC142. It may not necessarily be applicable to this product.

NCBI GI #	75709192
NCBI GeneID	29086
NCBI Accession #	NP_054892
UniProt Primary Accession #	Q9NWV8
UniProt Related Accession #	Q9NWV8
GenBank Nucleotide #	NM_014173
NCBI Official Full Name	BRISC and BRCA1-A complex member 1 isoform 1
NCBI Official Synonym Full Names	BRISC and BRCA1 A complex member 1
NCBI Official Symbol	BABAM1
NCBI Official Synonym Symbols	NBA1; HSPC142; MERIT40; C19orf62
UniProt Protein Name	BRISC and BRCA1-A complex member 1
UniProt Synonym Protein Names	Mediator of RAP80 interactions and targeting subunit of 40 kDa
UniProt Gene Name	BABAM1

UniProt Entry Name	BABA1_HUMAN
NCBI Protein Information	BRISC and BRCA1-A complex member 1
UniProt Comments for HSPC142	NBA1: a 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. In the BRCA1-A complex, it is required for the complex integrity and its localization at DSBs. Probably also plays a role as a component of the BRISC complex, a multiprotein complex that specifically cleaves 'Lys-63'-linked ubiquitin. In these 2 complexes, it is probably required to maintain the stability of BRE/BRCC45 and help the 'Lys-63'-linked deubiquitinase activity mediated by BRCC3/BRCC36 component. The VWFA-like region is similar to the VWFA domain. Its presence reveals similarities between the structure of the 19S proteasome and the BRCA1-A complexes. Two alternatively spliced human isoforms have been reported. Protein type: DNA repair, damage Chromosomal Location of Human Ortholog: 19p13.11 Cellular Component: cytoplasm; nucleoplasm; nucleus Molecular Function: protein binding Biological Process: double-strand break repair; double-strand break repair via nonhomologous end joining; G2/M transition DNA damage checkpoint; positive regulation of DNA repair; response to ionizing radiation
Research Articles on HSPC142	**1.** Genetic variants in NBA1 may be an important genetic determinant of triple-negative breast cancer susceptibility.
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