

Tel: 400-999-8863 
■ Email:Upingbio.163.com





## BRCA1 (phospho Ser1423) Polyclonal Antibody

Catalog No	YP-Ab-00148
Isotype	IgG
Reactivity	Human;Rat
Applications	WB;IHC;IF;ELISA
Gene Name	BRCA1
Protein Name	Breast cancer type 1 susceptibility protein
Immunogen	The antiserum was produced against synthesized peptide derived from human BRCA1 around the phosphorylation site of Ser1423. AA range:1391-1440
Specificity	Phospho-BRCA1 (S1423) Polyclonal Antibody detects endogenous levels of BRCA1 protein only when phosphorylated at S1423.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/5000 IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	BRCA1; RNF53; Breast cancer type 1 susceptibility protein; RING finger protein 53
Observed Band	210kD
Cell Pathway	Nucleus . Chromosome . Cytoplasm . Localizes at sites of DNA damage at double-strand breaks (DSBs); recruitment to DNA damage sites is mediated by ABRAXAS1 and the BRCA1-A complex (PubMed:26778126). Translocated to the cytoplasm during UV-induced apoptosis (PubMed:20160719); [Isoform 3]: Cytoplasm.; [Isoform 5]: Cytoplasm .
Tissue Specificity	Isoform 1 and isoform 3 are widely expressed. Isoform 3 is reduced or absent in several breast and ovarian cancer cell lines.
Function	disease:Defects in BRCA1 are a cause of genetic susceptibility to breast cancer (BC) [MIM:113705, 114480]. BC is an extremely common malignancy, affecting



## UpingBio technology Co.,Ltd

📞 Tel: 400-999-8863 💌 Emall:Upingbio.163.com



## [MIM:604370]. Mutations in BRCA1 are

This gene encodes a nuclear phosphoprotein that plays a role in maintaining genomic stability, and it also acts as a tumor suppressor. The encoded protein combines with other tumor suppressors, DNA damage sensors, and signal transducers to form a large multi-subunit protein complex known as the BRCA1-associated genome surveillance complex (BASC). This gene product associates with RNA polymerase II, and through the C-terminal domain, also interacts with histone deacetylase complexes. This protein thus plays a role in transcription, DNA repair of double-stranded breaks, and recombination. Mutations in this gene are responsible for approximately 40% of inherited breast cancers and more than 80% of inherited breast and ovarian cancers. Alternative splicing plays a role in modulating the subcellular localization and physiological function of this gene. Many alternatively spliced transcript varian

matters needing attention

Avoid repeated freezing and thawing!

**Usage suggestions** 

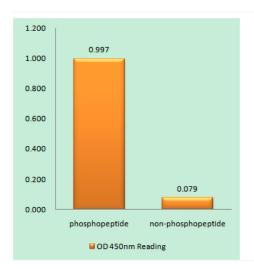
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



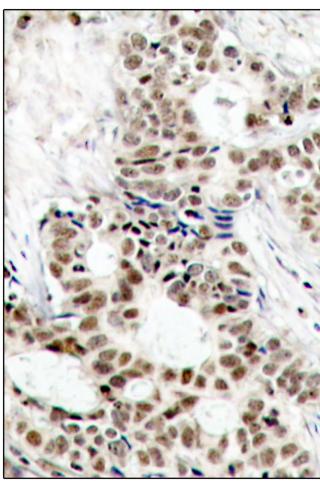
Tel: 400-999-8863 
■ Email:Upingbio.163.com



## **Products Images**



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using BRCA1 (Phospho-Ser1423) Antibody



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using BRCA1 (Phospho-Ser1423) Antibody. The picture on the right is blocked with the phospho peptide.