

BRCA1(Phospho-Ser1423) Antibody

Catalog No: #11242



Package Size: #11242-1 50ul #11242-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

Description

Product Name	BRCA1(Phospho-Ser1423) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Isotype	IgG
Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using non-phosphopeptide.
Applications	WB IHC
Species Reactivity	Human
Specificity	The antibody detects endogenous level of BRCA1 only when phosphorylated at serine 1423.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of serine 1423 (H-G-S(p)-Q-P) derived from Human BRCA1.
Conjugates	Unconjugated
Target Name	BRCA1
Modification	Phospho
Other Names	RNF53
Accession No.	Swiss-Prot: P38398NCBI Protein: NP_009225.1
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.

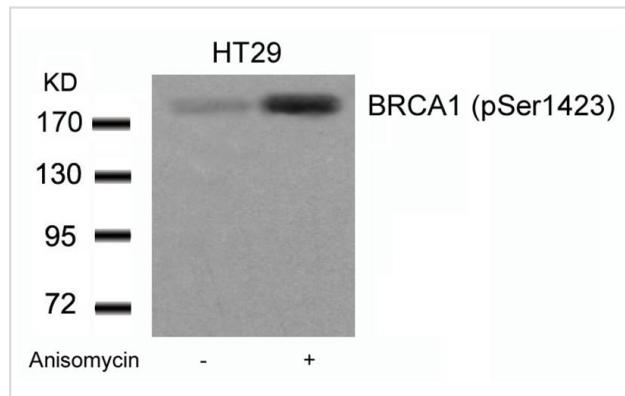
Application Details

Predicted MW: 220kd

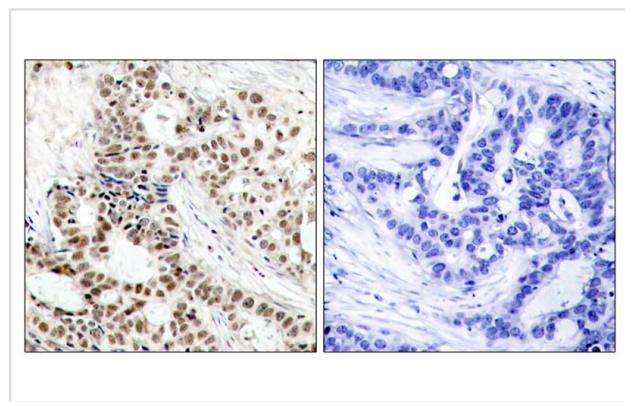
Western blotting: 1:500~1:1000

Immunohistochemistry: 1:50~1:100

Images



Western blot analysis of extracts from HT29 cells untreated or treated with Anisomycin using BRCA1(Phospho-Ser1423) Antibody #11242.



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using BRCA1(Phospho-Ser1423) Antibody #11242(left) or the same antibody preincubated with blocking peptide(right).

Background

The BRCA1-BARD1 heterodimer coordinates a diverse range of cellular pathways such as DNA damage repair, ubiquitination and transcriptional regulation to maintain genomic stability. Acts by mediating ubiquitin E3 ligase activity that is required for its tumor suppressor function. Plays a central role in DNA repair by facilitating cellular response to DNA repair. Required for appropriate cell cycle arrests after ionizing irradiation in both the S-phase and the G2 phase of the cell cycle. Involved in transcriptional regulation of P21 in response to DNA damage. Required for FANCD2 targeting to sites of DNA damage. May function as a transcriptional regulator. Inhibits lipid synthesis by binding to inactive phosphorylated ACACA and preventing its dephosphorylation.

Kim ST, et al. (2002) *Genes Dev*; 16(5): 560-570
 Arlt MF, et al. (2004) *Mol Cell Biol*; 24(15): 6701-6709
 Zhang J, et al. (2004) *Mol Cell Biol*; 24(2): 708-718
 Greenberg RA, et al. (2006) *Genes Dev*; 20(1): 34-46
 Tibbetts RS, et al. (2000) *Genes Dev*; 14(23): 2989-3002

Note: This product is for in vitro research use only and is not intended for use in humans or animals.