BRCA1 (Phospho-Ser1457) Antibody

Catalog No: #11787

Package Size: #11787-1 50ul #11787-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

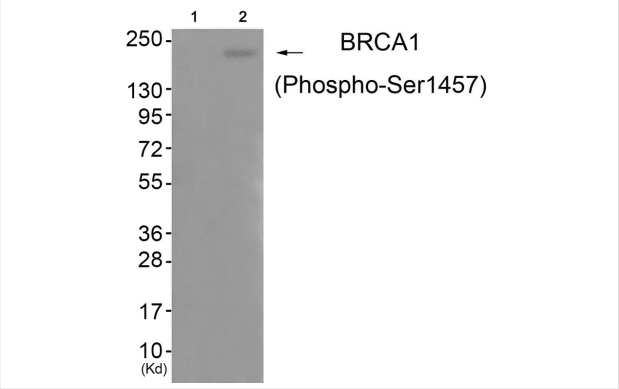
Description

Product Name	BRCA1 (Phospho-Ser1457) Antibody
Host Species	Rabbit
Clonality	Polyclonal
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 chromatogramphy using non-phosphopeptide.
Applications	WB
Species Reactivity	Hu
Specificity	The antibody detects endogenous levels of BRCA1 only when phosphorylated at serine 1457.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of Serine 1457 (L-T-S(p)-Q-K) derived from Human BRCA1.
Target Name	BRCA1
Modification	Phospho
Other Names	BRCA1; Breast cancer type 1 susceptibility protein; familial breast/ovarian cancer gene 1;
Accession No.	Swiss-Prot#: P38398; NCBI Gene#: 672; NCBI Protein#: NP_009225.1.
SDS-PAGE MW	220kd
Concentration	1.0mg/ml
Formulation	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C/1 year

Application Details

Western blotting: 1:500~1:1000

Images



Western blot analysis of extracts from 293 cells (Lane 2), using BRCA1 (Phospho-Ser1457) Antibody #11787. The lane on the left is treated with antigen-specific peptide.

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

Miki Y., Science 266:66-71(1994).
Smith T.M., Genome Res. 6:1029-1049(1996).
Wilson C.A., Oncogene 14:1-16(1997).

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