

35-1225: Polyclonal Antibody to BRCA1 (Phospho-Ser1423)

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| Clonality : | Polyclonal |
| Application : | WB,IHC |
| Reactivity : | Human |
| Gene : | BRCA1 |
| Gene ID : | 672 |
| Uniprot ID : | P38398 |
| Format : | Purified |
| Alternative Name : | RNF53 |
| Isotype : | Rabbit IgG |
| Immunogen Information : | Peptide sequence around phosphorylation site of serine 1423 (H-G-S(p)-Q-P) derived from Human BRCA1. |

Description

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

Product Info

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| Amount : | 50 µl / 100 µl |
| Content : | 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 condition : | Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid repeated freeze and thaw cycles. |

Application Note

Predicted MW: 220kd, Western blotting: 1:500~1:1000, Immunohistochemistry: 1:50~1:100

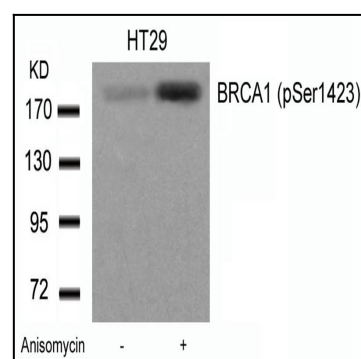


Figure 1: Western blot analysis of extracts from HT29 cells untreated or treated with Anisomycin using BRCA1(Phospho-Ser1423) Antibody 35-1225 .

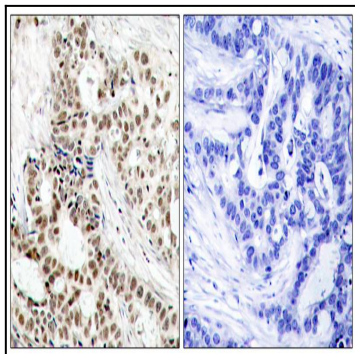


Figure 2: Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using BRCA1(Phospho-Ser1423) Antibody 35-1225 (left) or the same antibody preincubated with blocking peptide(right).