

**AP20843PU-N****Polyclonal Antibody to BRCA1 / RNF53 pSer1423 - Aff - Purified****Alternate names:**

Breast cancer type 1 susceptibility protein, RING finger protein 53

**Quantity:**

0.1 mg

**Concentration:**

1.0 mg/ml

**Background:**

In 1990, a breast cancer susceptibility gene designated BRCA1 was localized to chromosome 17q. Mutations within this gene are believed to account for approximately 45% of families with high incidence of breast cancer and at least 80% of families with increased incidence of both early-onset breast cancer and ovarian cancer. A second breast cancer susceptibility gene, BRCA2, located on chromosome 13q12-13, also confers a high incidence of breast cancer but, unlike BRCA1, does not confer a substantially elevated risk of ovarian cancer. The BRCA1 gene is expressed in numerous tissues, including breast and ovary, and encodes a predicted protein of 1863 amino acids. This protein contains a zinc finger domain in its amino terminal region, but is otherwise unrelated to any previously described proteins. Like many other genes involved in familial cancer, BRCA1 appears to encode a tumor suppressor, a protein that acts as a negative regulator of tumor growth.

**Uniprot ID:**[P38398](#)**NCBI:**[NP\\_009225](#)**GeneID:**[672](#)**Host:**

Rabbit

**Format:****State:** Liquid purified Ig fraction**Purification:** Affinity chromatography (> 95% (by SDS-PAGE))**Buffer System:** Phosphate buffered saline (PBS), pH 7.2.**Preservatives:** 0.05% sodium azide**Applications:****Immunohistochemistry on paraffin sections:** 1/50 - 1/200.

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

**Molecular Weight:**

~ 200 kDa

**Specificity:**

This antibody detects endogenous levels of BRCA1 protein only when phosphorylated at Ser1423.

**Species Reactivity:****Tested:** Human.**Expected from sequence similarity:** Rat.**Storage:**

Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

**Pictures:**

**Immunohistochemistry (IHC)** analyzes of p-BRCA1 antibody (Cat.-No.: AP20843PU-N) in paraffin-embedded human lung adenocarcinoma tissue.

