

## RAP80 Antibody

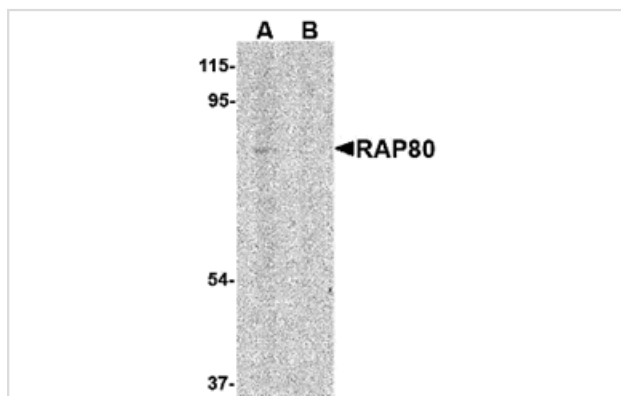
Catalog No: #24574

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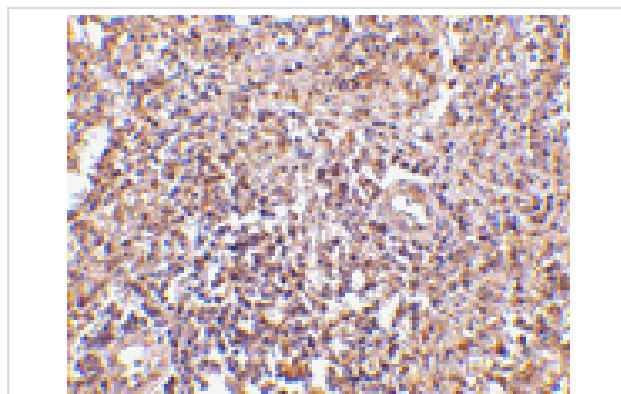
## Description

|                       |                                                                                                                                                                                                 |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name          | RAP80 Antibody                                                                                                                                                                                  |
| Host Species          | Rabbit                                                                                                                                                                                          |
| Clonality             | Polyclonal                                                                                                                                                                                      |
| Purification          | Affinity chromatography purified via peptide column                                                                                                                                             |
| Applications          | ELISA WB IHC                                                                                                                                                                                    |
| Species Reactivity    | Hu Ms                                                                                                                                                                                           |
| Immunogen Type        | Peptide                                                                                                                                                                                         |
| Immunogen Description | Raised against a 17 amino acid peptide from near the amino terminus of human RAP80.                                                                                                             |
| Target Name           | RAP80                                                                                                                                                                                           |
| Other Names           | Receptor associated protein 80, Ubiquitin interaction motif-containing 1, UIMC1                                                                                                                 |
| Accession No.         | Swiss-Prot:Q96RL1Gene ID:51720                                                                                                                                                                  |
| Uniprot               | Q96RL1                                                                                                                                                                                          |
| GeneID                | 51720;                                                                                                                                                                                          |
| Concentration         | 1mg/ml                                                                                                                                                                                          |
| Formulation           | Supplied in PBS containing 0.02% sodium azide.                                                                                                                                                  |
| Storage               | Can be stored at -20°C, stable for one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures. |

## Images



Western blot analysis of RAP80 in 293 cell lysate in (A) the absence and (B) presence of blocking peptide with RAP80 antibody at 1 ug/mL.



Immunohistochemistry of RAP80 in human spleen tissue with RAP80 antibody at 2.5 ug/mL.

## Background

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RAP80 was initially identified as zinc-finger containing nuclear protein that is highly expressed in testis and interacts with the retinoid-related testis-associated receptor (RTR). Later experiments revealed that RAP80 is recruited by the Coiled-coil domain 98 (CCDC98) protein to the breast cancer-1 protein BRCA1, allowing the formation of BRCA1 foci in response to DNA damage caused by ionizing radiation. Both RAP80 and CCDC98 are required for DNA damage resistance, G2-M checkpoint control, and DNA repair. Cells depleted of either RAP80 or CCDC98 exhibited increased sensitivity to ionizing radiation, although not as much as in BRCA1-depleted cells, suggesting that RAP80 and CCDC98 control only part of the DNA damage response role of BRCA1. At least four isoforms of RAP80 are known to exist.

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Note: This product is for in vitro research use only