

## RAP80 Antibody

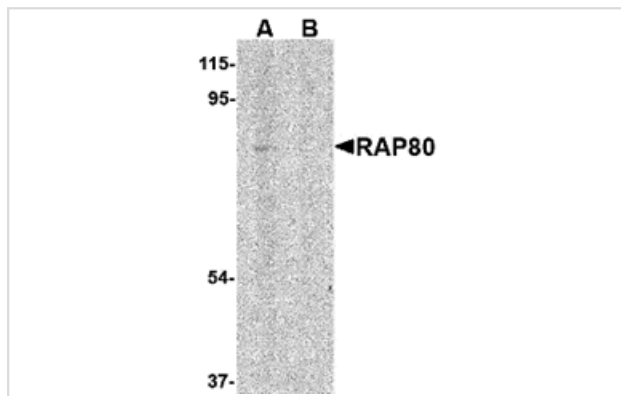
Catalog No: #24574

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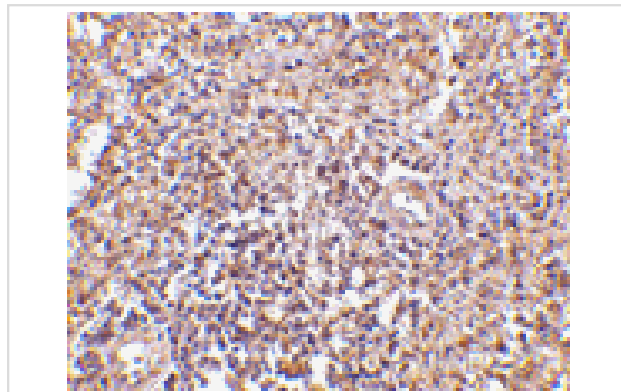
## Description

|                       |   |
|-----------------------|---|
| 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.         | EAW85043  |
| 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 and is not intended for use in humans or animals.