# RAP80 Antibody

Catalog No: #24573

## Description

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| 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 carboxy 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
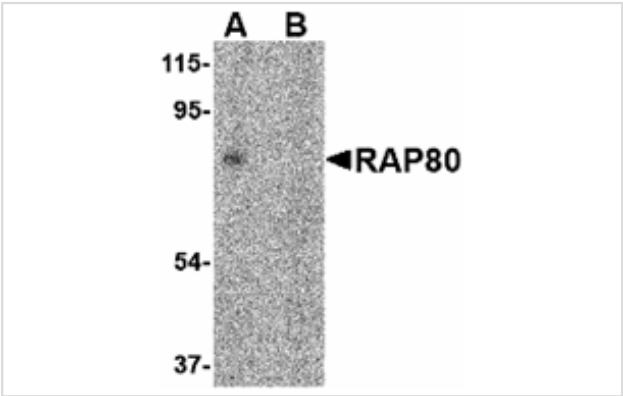


Western blot analysis of RAP80 in 293 cell lysate in (A) the absence and (B) presence of blocking peptide with RAP80 antibody at 2 ug/mL.
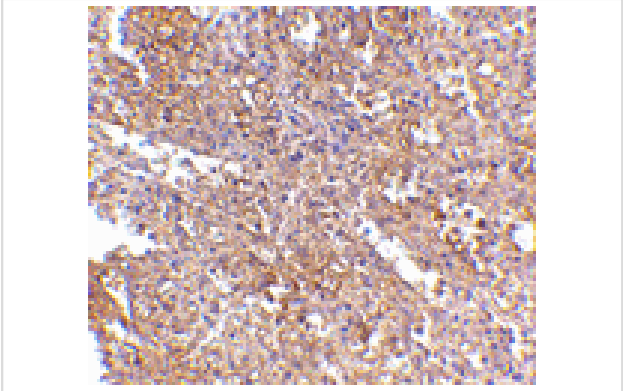


Immunohistochemistry of RAP80 in human spleen tissue with RAP80 antibody at 2.5 ug/mL.

## Background

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.

Note: This product is for in vitro research use only