

RAP80 Antibody

Catalog No: #24574

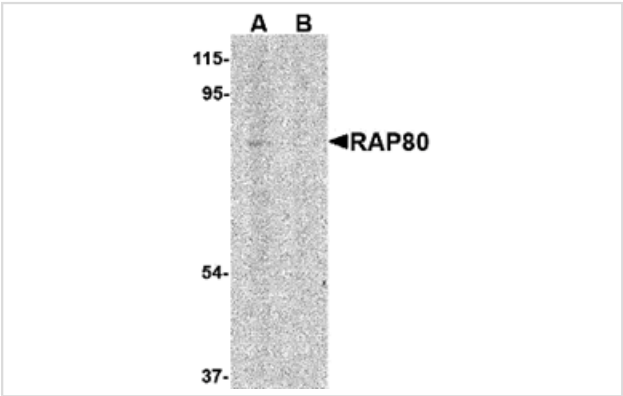


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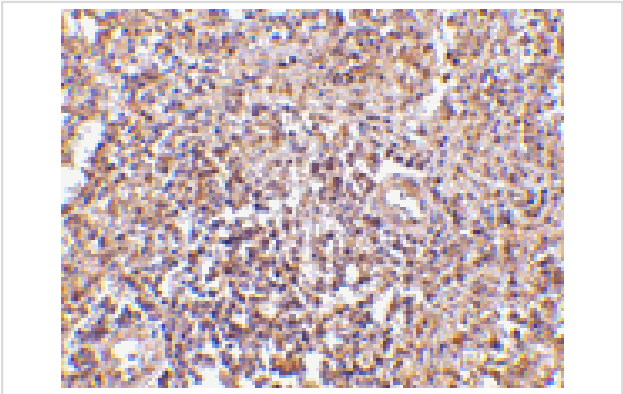
Description

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

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