

Phospho-Rad17 (Ser656) Rabbit mAb

Catalog # AP76361

Product Information

Application	WB, IHC-P, IHC-F, ICC
Primary Accession	O75943
Reactivity	Human
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	77055

Additional Information

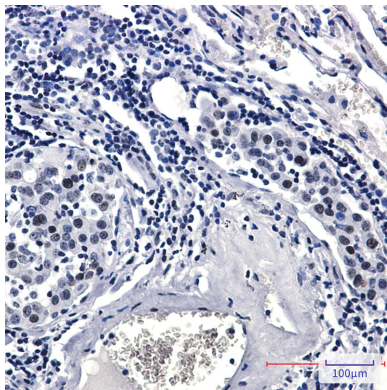
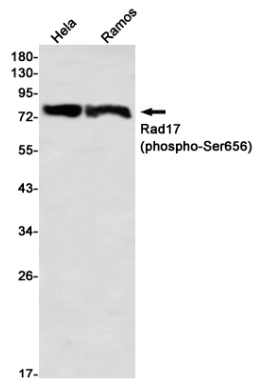
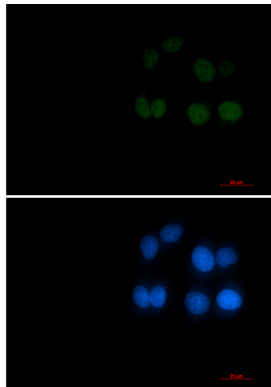
Gene ID	5884
Other Names	RAD17
Dilution	WB~~1/500-1/1000 IHC-P~~N/A IHC-F~~N/A ICC~~N/A
Format	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.

Protein Information

Name	RAD17 {ECO:0000303 PubMed:9878245, ECO:0000312 HGNC:HGNC:9807}
Function	Essential for sustained cell growth, maintenance of chromosomal stability, and ATR-dependent checkpoint activation upon DNA damage (PubMed: 10208430 , PubMed: 11418864 , PubMed: 11687627 , PubMed: 11799063 , PubMed: 12672690 , PubMed: 14624239 , PubMed: 15235112). Has a weak ATPase activity required for binding to chromatin (PubMed: 10208430 , PubMed: 11418864 , PubMed: 11687627 , PubMed: 11799063 , PubMed: 12672690 , PubMed: 14624239 , PubMed: 15235112). Participates in the recruitment of the 9-1-1 (RAD1-RAD9-HUS1) complex and RHNO1 onto chromatin, and in CHEK1 activation (PubMed: 21659603). Involved in homologous recombination by mediating recruitment of the MRN complex to DNA damage sites (PubMed: 24534091). May also serve as a sensor of DNA replication progression (PubMed: 12578958 , PubMed: 14500819 , PubMed: 15538388).
Cellular Location	Nucleus. Chromosome Note=Phosphorylated form redistributes to discrete nuclear foci upon DNA damage (PubMed:11799063). Localizes to DNA double-strand breaks (DSBs) (PubMed:24534091).
Tissue Location	Overexpressed in various cancer cell lines and in colon carcinoma (at protein level). Isoform 2 and isoform 3 are the most abundant isoforms in non irradiated cells (at protein level) Ubiquitous at low levels. Highly expressed in

testis, where it is expressed within the germinal epithelium of the seminiferous tubuli Weakly expressed in seminomas (testicular tumors)

Images



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