

## Rad17 Polyclonal Antibody

### Description

<b>Product type</b>	Primary Antibody
<b>Code</b>	BT-AP07601
<b>Host</b>	Rabbit
<b>Isotype</b>	IgG
<b>Size</b>	20ul, 50ul, 100ul
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human RAD17. AA range:621-670
<b>Mol wt</b>	77055
<b>Species reactivity</b>	Human, Mouse
<b>Clonality</b>	Polyclonal
<b>Recommended application</b>	WB, IHC-p, IF, ELISA
<b>Concentration</b>	1 mg/ml
<b>Full name</b>	Rad17 Antibody
<b>Synonyms</b>	RAD17; R24L; Cell cycle checkpoint protein RAD17; hRad17; RF-C/activator 1 homolog

**This product is for research use only, not for use in human, therapeutic or diagnostic procedure.**

### Background

RAD17 checkpoint clamp loader component encoded by RAD17 is highly similar to the gene product of *Schizosaccharomyces pombe* rad17, a cell cycle checkpoint gene required for cell cycle arrest and DNA damage repair in response to DNA damage. RAD17 checkpoint clamp loader component shares strong similarity with DNA replication factor C (RFC), and can form a complex with RFCs. RAD17 checkpoint clamp loader component binds to chromatin prior to DNA damage and is phosphorylated by the checkpoint kinase ATR following damage. RAD17 checkpoint clamp loader component recruits the RAD1-RAD9-HUS1 checkpoint protein complex onto chromatin after DNA damage, which may be required for its phosphorylation. The phosphorylation of RAD17 checkpoint clamp loader component is required for the DNA-damage-induced cell cycle G2 arrest, and is thought to be a critical early event during checkpoint signaling in DNA-damaged cells. Multiple alternatively spliced transcript variants of RAD17, which encode four distinct protein isoforms, have been reported. Two pseudogenes, located on chromosomes 7 and 13, have been identified.

### Recommended Dilution

WB: 1: 500 - 1: 2000

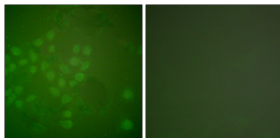
IHC: 1: 100 - 1: 300

IF: 1: 200 - 1: 1000

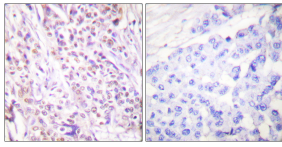
ELISA: 1: 10000

Not yet tested in other applications.

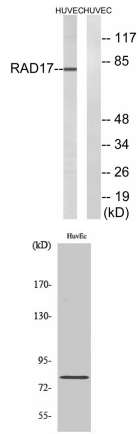
### Images



Immunofluorescence analysis of A549 cells, using RAD17 Antibody. The picture on the right is blocked with the synthesized peptide.



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue, using RAD17 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from HUVEC cells, using RAD17 Antibody. The lane on the right is blocked with the synthesized peptide.

Western Blot analysis of various cells using Rad17 Polyclonal Antibody

### Storage

-20°C for one year

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