

# BRAT1 Antibody

Rabbit mAb

Catalog # AP92990

## Product Information

<b>Application</b>	WB, IF, FC, ICC, IP
<b>Primary Accession</b>	<a href="#">Q6PJG6</a>
<b>Reactivity</b>	Human
<b>Clonality</b>	Monoclonal
<b>Other Names</b>	BAAT1; brat1; C7orf27; RMFSL;
<b>Isotype</b>	Rabbit IgG
<b>Host</b>	Rabbit
<b>Calculated MW</b>	88119

## Additional Information

<b>Dilution</b>	WB 1:500~1:2000 ICC/IF 1:50~1:200 IP 1:50 FC 1:50
<b>Purification</b>	Affinity-chromatography
<b>Immunogen</b>	A synthesized peptide derived from human BRAT1
<b>Description</b>	Required for activation of ATM following ionizing radiation. May act by regulating dephosphorylation of ATM.
<b>Storage Condition and Buffer</b>	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

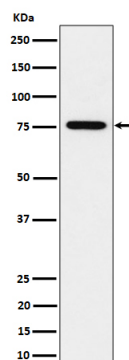
## Protein Information

<b>Name</b>	BRAT1 {ECO:0000303 PubMed:25657994, ECO:0000312 HGNC:HGNC:21701}
<b>Function</b>	Component of a multiprotein complex required for the assembly of the RNA endonuclease module of the integrator complex (PubMed: <a href="#">39032489</a> , PubMed: <a href="#">39032490</a> ). Associates with INTS9 and INTS11 in the cytoplasm and blocks the active site of INTS11 to inhibit the endonuclease activity of INTS11 before formation of the full integrator complex (PubMed: <a href="#">39032489</a> , PubMed: <a href="#">39032490</a> ). Following dissociation of WDR73 of the complex, BRAT1 facilitates the nuclear import of the INTS9-INTS11 heterodimer (PubMed: <a href="#">39032489</a> ). In the nucleus, INTS4 is integrated to the INTS9-INTS11 heterodimer and BRAT1 is released from the mature RNA endonuclease module by inositol hexakisphosphate (InsP6) (PubMed: <a href="#">39032489</a> ). BRAT1 is also involved in DNA damage response; activates kinases ATM, SMC1A and PRKDC by modulating their phosphorylation status following ionizing radiation (IR) stress (PubMed: <a href="#">16452482</a> , PubMed: <a href="#">22977523</a> ). Plays a role in regulating mitochondrial function and cell proliferation (PubMed: <a href="#">25070371</a> ). Required for protein stability of MTOR and MTOR-related proteins, and cell cycle progress by growth factors (PubMed: <a href="#">25657994</a> ).

<b>Cellular Location</b>	Nucleus. Cytoplasm Note=Present at double strand breaks (DSBs)following ionizing radiation treatment. The ubiquitinated form localizes in the nucleus in a NDFIP1- dependent manner.
<b>Tissue Location</b>	Ubiquitously expressed.

## Images

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Western blot analysis of BRAT1 expression in HeLa cell lysate.

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