

# BRAT1 Rabbit mAb

Catalog # AP75165

## Product Information

Application	WB, IP, ICC
Primary Accession	<a href="#">Q6PIG6</a>
Reactivity	Human
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	88119

## Additional Information

Gene ID	221927
Other Names	BRAT1
Dilution	WB~~1/500-1/1000 IP~~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.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

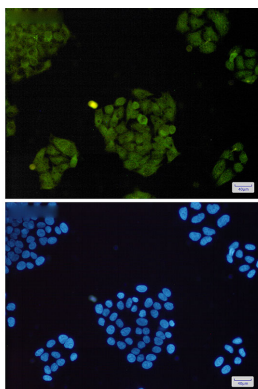
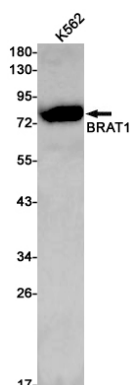
## Protein Information

Name	BRAT1 {ECO:0000303   PubMed:25657994, ECO:0000312   HGNC:HGNC:21701}
Function	<p>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>).</p>

<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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