

产品名称: BAT3 (9V6) Rabbit Monoclonal Antibody
产品货号: AMRe07469



产品概述 (Summary)

产品名称 (Production Name)	BAT3 (9V6) Rabbit Monoclonal Antibody
描述 (Description)	Recombinant rabbit monoclonal antibody
宿主 (Host)	Rabbit
应用 (Application)	WB,IHC,ICC/IF,FC
种属反应性 (Reactivity)	Human,Mouse,Rat

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
同种型 (Isotype)	IgG
克隆 (Clonality)	Monoclonal
形式 (Form)	Liquid
存放说明 (Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液 (Buffer)	Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% New type preservative N and 0.05% protective protein.
纯化方式 (Purification)	Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	BAG6
别名 (Alternative Names)	BAG6; BAT 3; Scythe;
基因 ID (Gene ID)	7917.0
蛋白 ID (SwissProt ID)	P46379.A synthetic peptide of human BAT3

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:1000-1:5000,IHC 1:20-1:50,ICC/IF 1:20-1:50,FC 1:20-1:50
蛋白分子量 (Molecular Weight)	119kDa

研究背景 (Background)

Chaperone that plays a key role in various processes such as apoptosis, insertion of tail-anchored (TA) membrane proteins

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to the endoplasmic reticulum membrane and regulation of chromatin. Acts in part by regulating stability of proteins and their degradation by the proteasome. Participates in endoplasmic reticulum stress-induced apoptosis via its interaction with AIFM1/AIF by regulating AIFM1/AIF stability and preventing its degradation. ATP-independent molecular chaperone preventing the aggregation of misfolded and hydrophobic patches-containing proteins (PubMed: [21636303](http://www.uniprot.org/citations/21636303)). Functions as part of a cytosolic protein quality control complex, the BAG6/BAT3 complex, which maintains these client proteins in a soluble state and participates in their proper delivery to the endoplasmic reticulum or alternatively can promote their sorting to the proteasome where they undergo degradation (PubMed: [20516149](http://www.uniprot.org/citations/20516149), PubMed: [21636303](http://www.uniprot.org/citations/21636303), PubMed: [21743475](http://www.uniprot.org/citations/21743475), PubMed: [28104892](http://www.uniprot.org/citations/28104892)). The BAG6/BAT3 complex is involved in the post-translational delivery of tail-anchored/type II transmembrane proteins to the endoplasmic reticulum membrane. Recruited to ribosomes, it interacts with the transmembrane region of newly synthesized tail-anchored proteins and together with SGTA and ASNA1 mediates their delivery to the endoplasmic reticulum (PubMed: [20516149](http://www.uniprot.org/citations/20516149), PubMed: [20676083](http://www.uniprot.org/citations/20676083), PubMed: [28104892](http://www.uniprot.org/citations/28104892), PubMed: [25535373](http://www.uniprot.org/citations/25535373)). Client proteins that cannot be properly delivered to the endoplasmic reticulum are ubiquitinated by RNF126, an E3 ubiquitin-protein ligase associated with BAG6 and are sorted to the proteasome (PubMed: [24981174](http://www.uniprot.org/citations/24981174), PubMed: [28104892](http://www.uniprot.org/citations/28104892), PubMed: [27193484](http://www.uniprot.org/citations/27193484)). SGTA which prevents the recruitment of RNF126 to BAG6 may negatively regulate the ubiquitination and the proteasomal degradation of client proteins (PubMed: [23129660](http://www.uniprot.org/citations/23129660), PubMed: [25179605](http://www.uniprot.org/citations/25179605), PubMed: [27193484](http://www.uniprot.org/citations/27193484)). Similarly, the BAG6/BAT3 complex also functions as a sorting platform for proteins of the secretory pathway that are mislocalized to the cytosol either delivering them to the proteasome for degradation or to the endoplasmic reticulum (PubMed: [21743475](http://www.uniprot.org/citations/21743475)). The BAG6/BAT3 complex also plays a role in the endoplasmic reticulum-associated degradation (ERAD), a quality control mechanism that eliminates unwanted proteins of the endoplasmic reticulum through their retrotranslocation to the cytosol and their targeting to the proteasome. It maintains these retrotranslocated proteins in an unfolded yet soluble state condition in the cytosol to ensure their proper delivery to the proteasome (PubMed: [21636303](http://www.uniprot.org/citations/21636303)). BAG6 is also required for selective ubiquitin-mediated degradation of defective nascent chain polypeptides by the proteasome. In this context, it may participate in the production of antigenic peptides and play a

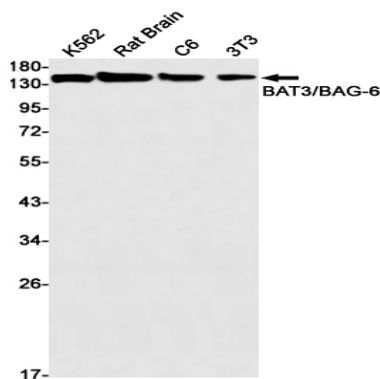
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role in antigen presentation in immune response (By similarity). BAG6 is also involved in endoplasmic reticulum stress-induced pre-emptive quality control, a mechanism that selectively attenuates the translocation of newly synthesized proteins into the endoplasmic reticulum and reroutes them to the cytosol for proteasomal degradation. BAG6 may ensure the proper degradation of these proteins and thereby protects the endoplasmic reticulum from protein overload upon stress (PubMed:26565908). By inhibiting the polyubiquitination and subsequent proteasomal degradation of HSPA2 it may also play a role in the assembly of the synaptonemal complex during spermatogenesis (By similarity). Also positively regulates apoptosis by interacting with and stabilizing the proapoptotic factor AIFM1 (By similarity). By controlling the steady-state expression of the IGF1R receptor, indirectly regulates the insulin-like growth factor receptor signaling pathway (PubMed:26692333).

研究领域 (Research Area)

图片 (Image Data)



Western blot detection of BAT3/BAG-6 in K562,Rat Brain,C6,3T3 cell lysates using BAT3/BAG-6 antibody(1:1000 diluted).

注意事项 (Note)

For research use only .