



Anti-BAG3 Antibody (Clone V65PIE8*D2)

Alternative Names: BAG3, Bcl-2-associated athanogene 3, Bcl-2-binding protein Bis, Docking protein CAIR-, BAG family molecular chaperone regulator 3

Catalogue Number: AX17-10002-100ug

Size: 100 µg

Background Information

BAG family molecular chaperone regulator 3 (BAG3) is involved in chaperone-assisted selective autophagy. Inhibits the chaperone activity of HSP70/HSC70 by promoting substrate release and has anti-apoptotic activity. In muscle cells, BAG3 cooperates with the molecular chaperones Hsc70 and HspB8 to induce the degradation of mechanically damaged cytoskeleton components in lysosomes. This process is called chaperone-assisted selective autophagy (CASA) and is essential for maintaining muscle activity. Defects in BAG3 are the cause of myopathy myofibrillar BAG3-related (MFM-BAG3) a neuromuscular disorder that results in early-onset, severe, progressive, diffuse muscle weakness associated with cardiomyopathy, severe respiratory insufficiency during adolescence, and a rigid spine in some patients.

Product Information

Antibody Type:	Monoclonal	Host:	Mouse
Isotype:	IgG1 kappa	Species Reactivity:	Human
Immunogen:	A synthetic peptide from the C-terminal region of Human BAG3		
Format:	100 µg in 100 µl PBS containing 0.02% sodium azide.		
Storage Conditions:	6 months: 4°C. Long-term storage: -20°C. Avoid multiple freeze and thaw cycles.		
Applications:	ELISA IHC WB		

Additional Information

Subcellular location:	Cytoplasm, Nucleus	MW:	75kDa (Intended as a general guide and does not allow for all isoforms and species variations)
Gene ID	9531	Uniprot ID:	O95817



References

[1] Sturner E. and Behl C. (2017). The role of the multifunctional BAG3 protein in cellular protein quality control and in disease. *Front. Mol. Neurosci.* 10, 177 10.3389/fnmol.2017.00177
