



## 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:** AX17-10002-50ug

**Size:** 50 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

<b>Antibody Type:</b>	Monoclonal	<b>Host:</b>	Mouse
<b>Isotype:</b>	IgG1 kappa	<b>Species Reactivity:</b>	Human
<b>Immunogen:</b>	A synthetic peptide from the C-terminal region of Human BAG3		
<b>Format:</b>	50 µg in 50 µl PBS containing 0.02% sodium azide.		
<b>Storage Conditions:</b>	6 months: 4°C. Long-term storage: -20°C. Avoid multiple freeze and thaw cycles.		
<b>Applications:</b>	ELISA   IHC   WB		

### Additional Information

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

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