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BAG2 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant BAG2.
Catalog # AT1261a

Product Information

Application	WB
Primary Accession	O95816
Other Accession	NM_004282
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	6.0E+12
Calculated MW	23772

Additional Information

Gene ID	9532
Other Names	BAG family molecular chaperone regulator 2, BAG-2, Bcl-2-associated athanogene 2, BAG2
Target/Specificity	BAG2 (NP_004273, 102 a.a. ~ 211 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	BAG2 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

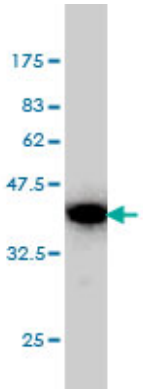
Background

BAG proteins compete with Hip for binding to the Hsc70/Hsp70 ATPase domain and promote substrate release. All the BAG proteins have an approximately 45-amino acid BAG domain near the C terminus but differ markedly in their N-terminal regions. The predicted BAG2 protein contains 211 amino acids. The BAG domains of BAG1, BAG2, and BAG3 interact specifically with the Hsc70 ATPase domain in vitro and in mammalian cells. All 3 proteins bind with high affinity to the ATPase domain of Hsc70 and inhibit its chaperone activity in a Hip-repressible manner.

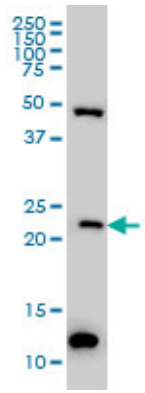
References

Large-scale mapping of human protein-protein interactions by mass spectrometry. Ewing RM, et al. Mol Syst Biol, 2007. PMID 17353931.The LIFEdb database in 2006. Mehrle A, et al. Nucleic Acids Res, 2006 Jan 1. PMID 16381901.Diversification of transcriptional modulation: large-scale identification and characterization of putative alternative promoters of human genes. Kimura K, et al. Genome Res, 2006 Jan. PMID 16344560.BAG-2 acts as an inhibitor of the chaperone-associated ubiquitin ligase CHIP. Arndt V, et al. Mol Biol Cell, 2005 Dec. PMID 16207813.Regulation of the cytoplasmic quality control protein degradation pathway by BAG2. Dai Q, et al. J Biol Chem, 2005 Nov 18. PMID 16169850.

Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (37.84 KDa) .



BAG2 monoclonal antibody (M01), clone 6E12 Western Blot analysis of BAG2 expression in HeLa ((Cat # AT1261a)