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BAG2 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14053b

Product Information

Application	WB, IHC-P, E
Primary Accession	O95816
Other Accession	Q91YN9, Q3ZBG5, NP_004273.1
Reactivity	Human
Predicted	Bovine, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB34133
Calculated MW	23772
Antigen Region	148-176

Additional Information

Gene ID	9532
Other Names	BAG family molecular chaperone regulator 2, BAG-2, Bcl-2-associated athanogene 2, BAG2
Target/Specificity	This BAG2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 148-176 amino acids from the C-terminal region of human BAG2.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	BAG2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	BAG2
Function	Co-chaperone for HSP70 and HSC70 chaperone proteins. Acts as a nucleotide-exchange factor (NEF) promoting the release of ADP from the

HSP70 and HSC70 proteins thereby triggering client/substrate protein release (PubMed:24318877, PubMed:9873016).

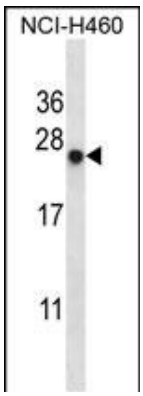
Background

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. [provided by RefSeq].

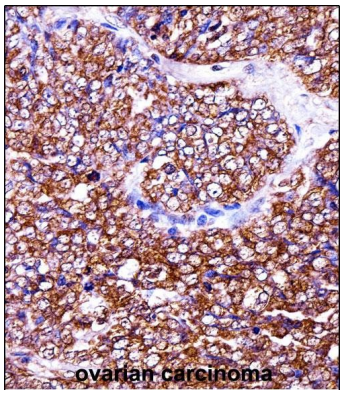
References

Arndt, V., et al. Mol. Biol. Cell 16(12):5891-5900(2005)
Dai, Q., et al. J. Biol. Chem. 280(46):38673-38681(2005)
Ueda, K., et al. J. Biol. Chem. 279(40):41815-41821(2004)
Ueda, K., et al. J. Biol. Chem. 279(40):41815-41821(2004)
Simpson, J.C., et al. EMBO Rep. 1(3):287-292(2000)

Images



BAG2 Antibody (C-term) (Cat. #AP14053b) western blot analysis in NCI-H460 cell line lysates (35ug/lane).This demonstrates the BAG2 antibody detected the BAG2 protein (arrow).



BAG2 Antibody (C-term) (AP14053b)immunohistochemistry analysis in formalin fixed and paraffin embedded human ovarian carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of BAG2 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

Citations

- Jumonji Domain Containing 5 (JMJD5) Associates with Spindle Microtubules and Is Required for Proper Mitosis.