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20-1012: Polyclonal antibody to Bag-1

Clonality :	Polyclonal
Application :	IP,IHC,WB
Reactivity :	Rat,Mouse,Human
Gene :	BAG1
Gene ID :	573
Uniprot ID :	Q99933
Format :	Sera
Alternative Name :	Bcl-2-associated athanogene 1, HAP
Isotype :	Rabbit IgG
Immunogen Information :	A synthetic peptide of Bag-1 protein (amino acids 26-45 NERYDLLVTPQQGNSEPVVQD) was used as the immunogen for this antibody

Description

This antibody recognizes both BAG-1 and BAG-1 isoforms which contain the peptide immunogen sequence, including BAG-1L. Mouse BAG-1 is a 219 amino acid (aa) protein. The BAG family contains at least six family members, including BAG-1 and its various isoforms [including BAG-1S , BAG-1M (RAP46/HAP46), and BAG-1L, BAG2, BAG3 (CAIR-1; Bis,), BAG4 (SODD), BAG5 and BAG6 (Scythe, BAT3). The BAG proteins are a family of chaperone regulators that modulate a number of diverse processes including proliferation, survival, stress responses, tumorigenesis, neuronal differentiation, growth arrest and apoptosis. BAG proteins have been characterized as co-chaperones and interact with the chaperone heat shock proteins 70, both constitutive Hsc70 and inducible Hsp70. BAG proteins bind through their BAG domain to the ATPase domain of Hsc70/Hsp70, and can modulate either positively or negatively the functions of the Hsc70/Hsp70 chaperone proteins. The BAG domain has been shown to contribute to the anti-apoptotic activity of BAG- family proteins. The anti-apoptotic activities of BAG-family proteins may be dependent on their interactions with Hsc70/Asp70 and/or binding to Bcl-2. In addition to the conserved BAG domain, BAG-family proteins also contain additional domains which enable them to interact with specific target proteins or to target them to specific locations within cells.

Product Info

Amount :	50 µl
Content :	50 µl sera
Storage condition :	Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid repeated freeze and thaw cycles.

Application Note

WB: 1:1000-1:2000, IHC (paraffin): 1:1000-1:5000, IHC (frozen): Users should optimize, IP: 1:50-1:200

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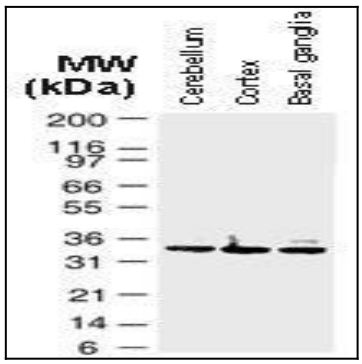


Fig:1 Western blot analysis of BAG-1 in normal brain tissue lysates using 20-1012 at 1:2000.

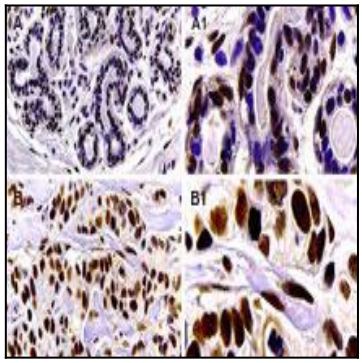


Fig:2 Formalin-fixed, paraffin-embedded human breast tissue stained for BAG-1 expression using 20-1012 at 1:2000. A. normal breast epithelium. B. breast cancer. A1 and B1 are high magnifications from A and B, respectively. Hematoxylin-eosin counterstain.

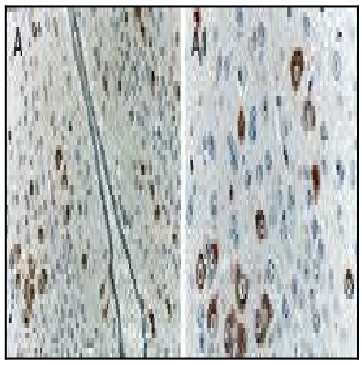


Fig:3 Formalin-fixed, paraffin-embedded mouse ischemic brain stained for BAG-1 expression using 20-1012 at 1:2000. A1 is a higher magnification of A. Differential Bag1 expression levels are seen in the hypothalmic nuclei. The variation in expression levels from lack of Bag1 staining to strong staining may be linked to differential responses of the hypothalmic nuclei to ischemic stress. Hematoxylin-eosin counterstain.

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