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Anti-BAG-1(C-term-Human)

Ablocker of apoptosis

Cat.#12-01-16353(0.1ml)

Background:

Bcl-2-binding protein, termed BAG -1 has been cloned (1). In addition to Bcl -2, Bag -1 interacts with several proteins, including the kinase TAF -1, tyrosine kinase growth factor receptors, Shc family proteins, and steroid hormone receptors (3). The BAG -1 protein shares no significant homology with Bcl -2 or other Bcl -2 family proteins, which can form homo - and heterodimers. Coexpression of BAG-1 and Bcl -2 provided markedly increased protection from cell death induced by several stimuli, including staurosporine, anti -Fas antibody, and cytolytic T cells, relative to cells that contained gene transfer-mediated elevations in either BAG -1 or Bcl -2 protein alone. Additionally, Bag -1 is a heat shock 70 kDa (Hsp70) -binding protein that can collaborate with Bcl -2 in suppressing apoptosis under some conditions (2,4,5,6). BAG -1 low levels of expression are also associated with breast cancer specimens and breast cancer cell lines (3).

Species Reactivity:

mouse, rat

Immunogen:

Antiserum specific for Bag -1 C-terminal was generated in rabbits by using a synthetic peptide corresponding to the C-terminal 16 amino acids (NH₂-CQETERLQSTNLALAE-COOH) that were conjugated to maleimide-activated KLH. (1).

Supplied As:

Full Serum, Rabbit anti -serum with 15 mM sodium azide.

Concentration:

Typical anti - Bag-1C-terminal dilutions used are 1:1500 (v/v)

Storage and Stability:

Store vial at 4°C. When stored at 2 -8°C, this antibody is stable for 24 months.

Applications and Suggested Dilutions:

- **Western blotting;** 1:1500 -3000; ECL after SG quenching according to: **Krajewski S**, Zapata JM, Reed JC: (1996) *Analytical Biochem* 236:221 -228
- **Immunoprecipitation;** 1:50
- **Immunocytochemistry;** Paraffin sections: 1:600 - 1500 Detection: 4plus™ HRP₅₀₀ Universal Kit

Controls: Incubations with normal rabbit IgG/serum 1:2000 + NSS (normal species serum) 1:8000.

The optimal dilution for a specific application under a given set of experimental conditions should be determined by the investigator.

Positive Control: spleen and other lymphoid organs, Jurkat cells

Limitations:

This Ab is available for research use only and is not approved for use in humans or in clinical diagnosis.

Warranty:

There are no warranties, expressed or implied, which extend beyond this description. Biocarta is not liable for property damage, personal injury, or economic loss caused by this product.

Custom Service:

Please contact us if you require this product in a special format.

References:

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2. Roth W, et al., (2000) *Brain Pathol* **10**(2):223-34.127
3. Krajewski, S., et al., (1999) *Endocrine-Related Cancer* **6**:29-40
4. Knee D.A. et al., (2001) *J Biol Chem* **276**(16):12718-24
5. Song J. et al., (2001) *Nat Cell Biol* **3**(3):276-82
6. Nollen E.A. et al., (2000) *Mol Cell Biol* **20**(3):1083-8