

BAG3 Polyclonal antibody

Catalog Number: 10599-1-AP

Featured Product

107 Publications

Basic Information

Catalog Number:

10599-1-AP

Size:

480 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG0956

GenBank Accession Number:

BC006418

GeneID (NCBI):

9531

UNIPROT ID:

O95817

Full Name:

BCL2-associated athanogene 3

Calculated MW:

61 kDa

Observed MW:

74-80 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:6000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IHC 1:500-1:2000

IF 1:50-1:500

Applications

Tested Applications:

IF/ICC, IHC, IP, WB, ELISA

Cited Applications:

WB, IP, IF, FC, IHC, CoIP

Species Specificity:

human, mouse, rat

Cited Species:

human, rat, mouse, monkey, hamster

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB: HEK-293 cells, HeLa cells, K-562 cells, mouse heart, rat heart

IP: K-562 cells,

IHC: human lung cancer tissue, human gliomas tissue

IF: A549 cells, SH-SY5Y cells, HeLa cells

Background Information

BAG3 (Bcl2-associated athanogene 3) belongs to the BAG protein family, the co-chaperone that binds to Hsc70/Hsp70 through the BAG domain and modulates their activity in polypeptide folding. BAG3 contains also a WW domain and a proline-rich (PXXP) repeat, that mediate binding to partners different from Hsp70. Through interacting with different molecular partner, BAG3 influences several cell processes, such as apoptosis, autophagy and cell motility. BAG3 protein has been reported to sustain cell survival, resistance to therapy, and/or motility and metastatization in several tumor types, thus being identified as a potential target for anticancer therapies. In addition, defects in BAG3 are the cause of some myopathy. BAG3 normally migrates around 74-80 kDa; a slightly different molecular weight or a doublet form can be observed in some cell types and/or following cell exposure to stressors. A synaptosome associated form of 40 kDa has recently been described.

Notable Publications

| Author | Pubmed ID | Journal | Application |
|----------------|-----------|----------------------------|-------------|
| Wenqian Wu | 34679684 | Antioxidants (Basel) | WB |
| Martin Kulessa | 31545528 | Neuropathol Appl Neurobiol | |
| Simona Cugusi | 36121223 | Mol Cell Biol | WB |

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

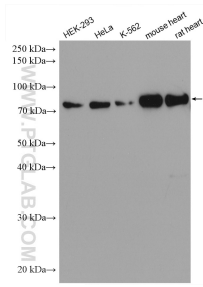
T: 4006900926

E: Proteintech-CN@ptglab.com

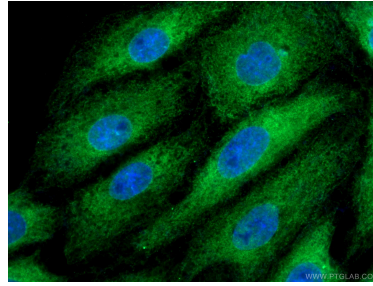
W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

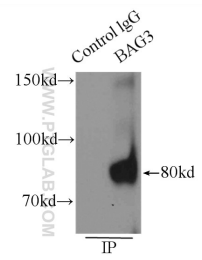
Selected Validation Data



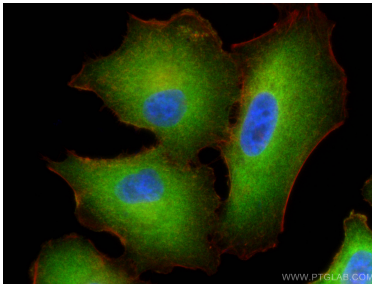
Various lysates were subjected to SDS PAGE followed by western blot with 10599-1-AP (BAG3 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



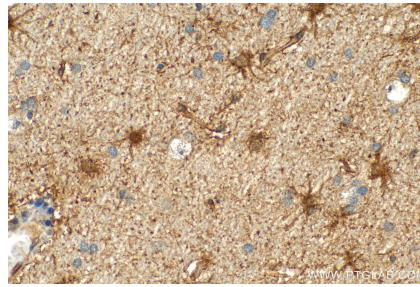
Immunofluorescent analysis of (-20°C Ethanol) fixed SH-SY5Y cells using 10599-1-AP (BAG3 antibody), at dilution of 1:100 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



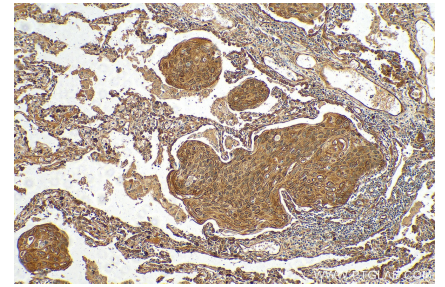
IP result of anti-BAG3 (IP:10599-1-AP, 4ug; Detection:10599-1-AP 1:1000) with K-562 cells lysate 11000ug.



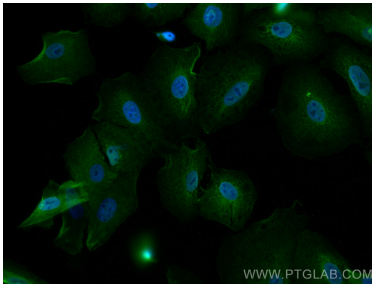
Immunofluorescent analysis of (4% PFA) fixed A549 cells using BAG3 antibody (10599-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 10599-1-AP (BAG3 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 10599-1-AP (BAG3 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed A549 cells using BAG3 antibody (10599-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).