Technical Data Sheet

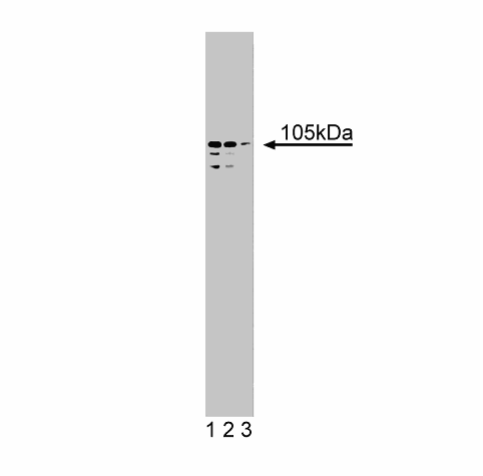
Purified Mouse Anti-AIP1

Product Information

Material Number:	**611620**
Alternate Name:	ALG-2 Interacting Protein 1; Alix
Size:	50 µg
Concentration:	250 µg/ml
Clone:	49/AIP1
Immunogen:	Mouse AIP1 aa. 375-580
Isotype:	Mouse IgG1
Reactivity:	QC Tesitng: Rat Tested in Development: Mouse
Target MW:	105 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

Apoptosis is a selective process of genetically programmed cell death which occurs during normal cell differentiation and development of multicellular organisms. In vertebrates, T cell and neuronal development are probably the best characterized systems for the study of apoptosis. ALG-2 and ALG-3 (apoptosis-linked genes 2 and 3) were identified as low molecular weight Ca2+-binding proteins essential for apoptosis through the activation of the Fas receptor in T cells. ALG-2 Interacting Protein 1 (AIP1/Alix) is a ubiquitous protein that associates with ALG-2 in the cytosol in a Ca2+ dependent manner. AIP1 is homologous to the yeast protein, BRO1, which has been implicated in Pkc1p- AP kinase signaling. A truncated form of AIP1 protects against serum starvation-, etoposide-, and staurosporine-induced cell death. In addition, the C-terminal proline rich region of AIP1 facilitates interaction with SH3 domain-containing protein expressed in tumorigenic astrocytes (SETA) and this interaction may be important for mediating DNA damage-dependent apoptosis in astrocytes. Thus, AIP1 interacts with ALG-2 or SETA, or both, during activation of cell death pathways in a variety of cell types.



Western blot analysis of AIP1 on a rat testis lysate.
Lane 1: 1:250, lane 2: 1:500, lane 3: 1:1000 dilution of the mouse anti-AIP1 antibody.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
Store undiluted at -20°C.

Application Notes

Application

Western blot	Routinely Tested
Immunofluorescence	Not Recommended

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Recommended Assay Procedure:

Western blot: Please refer to http://www.bdbiosciences.com/pharmingen/protocols/Western_Blotting.shtml

Suggested Companion Products

Catalog Number	Name	Size	Clone
611472	Rat Testis Lysate	500 µg	(none)
554002	HRP Goat Anti-Mouse Ig	1.0 ml	(none)

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

References

Chen B, Borinstein SC, Gillis J, Sykes VW, Bogler O. The glioma-associated protein SETA interacts with AIP1/Alix and ALG-2 and modulates apoptosis in astrocytes. *J Biol Chem.* 2000; 275(25):19275-19281.(Biology)

Vito P, Pellegrini L, Guiet C, D'Adamio L. Cloning of AIP1, a novel protein that associates with the apoptosis-linked gene ALG-2 in a Ca2+-dependent reaction. *J Biol Chem.* 1990; 274(3):1533-1540.(Biology)