ALG-2 (FL-191): sc-292580



The Power to Question

BACKGROUND

An increased intracellular Ca²⁺ concentration induces apoptotic cell death. Transiently elevated Ca²⁺ concentrations are required for glucocorticoid-mediated and T cell receptor-mediated pathways, leading to T cell apoptosis. ALG-2 (for apoptosis-linked gene 2) is a Ca²⁺-binding protein that participates in regulatory events occuring late in the apoptotic program and where several death signals converge. ALG-2 is a protein expressed in normal brain, and to a greater extent in ischemic brain. The ALG-2 protein contains five EF-hand-like motifs and shares homology with members of the penta EF-hand family, which includes Calpain small subunits sorcin and Grancalcin.

REFERENCES

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- Nicotera, P., et al. 1990. The role of Ca²⁺ in cell killing. Chem. Res. Toxicol. 3: 484-494.
- 4. Vito, P., et al. 1996. Interfering with apoptosis: Ca²⁺-binding protein ALG-2 and Alzheimer's disease gene ALG-3. Science 271: 521-525.
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- Maki, M., et al. 1997. A growing family of the Ca²⁺-binding proteins with five EF-hand motifs. Biochem. J. 328: 718-720.
- 7. Venn, M.K. and Conway, E.L. 1998. Localization of mRNA for the apoptosis-linked gene ALG-2 in young and aged rat brain. Neuroreport 9: 1981-1985.
- Li, W., et al. 2000. Increased expression of apoptosis-linked gene 2 (ALG-2) in the rat brain after temporary focal cerebral ischemia. Neuroscience 96: 161-168.

CHROMOSOMAL LOCATION

Genetic locus: PDCD6 (human) mapping to 5p15.33; Pdcd6 (mouse) mapping to 13 C1.

SOURCE

ALG-2 (FL-191) is a rabbit polyclonal antibody raised against amino acids 1-191 representing full length ALG-2 of human origin.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

ALG-2 (FL-191) is recommended for detection of ALG-2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

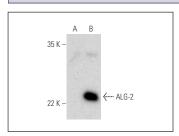
ALG-2 (FL-191) is also recommended for detection of ALG-2 in additional species, including canine and bovine.

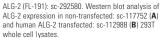
Suitable for use as control antibody for ALG-2 siRNA (h): sc-106841, ALG-2 siRNA (m): sc-141006, ALG-2 shRNA Plasmid (h): sc-106841-SH, ALG-2 shRNA Plasmid (m): sc-141006-SH, ALG-2 shRNA (h) Lentiviral Particles: sc-106841-V and ALG-2 shRNA (m) Lentiviral Particles: sc-141006-V.

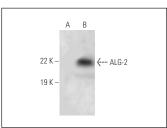
Molecular Weight of ALG-2: 22 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200 or ALG-2 (h2): 293T Lysate: sc-112988.

DATA







ALG-2 (FL-191): sc-292580. Western blot analysis of ALG-2 expression in non-transfected: sc-117752 (A) and human ALG-2 transfected: sc-114742 (B) 293T whole cell Ivsates.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.



Try **ALG-2 (H-11):** sc-376950 or **ALG-2 (AA8):** sc-101209, our highly recommended monoclonal alternatives to ALG-2 (FL-191).

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