ALX-804-305 Caspase-3, mAb (31A1067)

Product Number/Size
ALX-804-305-C100 100 µg

Product Specifications
- **CONCENTRATION:** 0.5 mg/ml
- **PURITY DETAIL:** Protein G-affinity purified.
- **FORMULATION:** Liquid. In PBS containing 0.05% BSA and 0.05% sodium azide.
- **CLONE:** 31A1067
- **ISOTYPE:** Mouse IgG1
- **IMMUNOGEN:** Recombinant human caspase-3.
- **SPECIFICITY:** Recognizes human, mouse and rat procaspase-3 and cleaved 17kDa catalytic subunit of caspase-3. Recognizes an epitope in the large (17kDa) domain subunit of caspase-3.
- **APPLICATION:** Immunohistochemistry (frozen sections, paraffin sections) Western Blot (2.5 µg/ml)
- **SHIPPING:** SHIPPED ON BLUE ICE
- **SHORT TERM STORAGE:** +4°C
- **LONG TERM STORAGE:** -20°C
- **USE/STABILITY:** Stable for 6 months when stored at +4°C.
- **HANDLING:** Avoid freeze/thaw cycles.

**Figure 1:** Western blot analysis for detection of Caspase-3 activation in HeLa cells. Cells were treated with 2 mM staurosporine for different time periods. Caspase-3 activation is determined by cleavage of procaspase-3, which generates 17 and 12 kDa, larger and smaller catalytic subunit, respectively.

**Figure 2:** Western blot analysis of Caspase-3 in multiple human tissues using MAb to Caspase-3 (31A1067) (Prod. No. ALX-804-305) at 2 µg/ml. Tissues shown are A) brain, B) heart, C) intestine, D) kidney, E) liver, F) lung, G) muscle, H) stomach, I) spleen, J) ovary, and K) testis.
Figure 3: Western blot analysis of Caspase-3 in A) RAW and B) NIH 3T3 using MAb to Caspase-3 (31A1067) (Prod. No. ALX-804-305) 2µg/ml.

Figure 4: Immunohistochemical analysis of caspase-3 in formalin-fixed, paraffin-embedded human stomach tissue using MAb to Caspase-3 (31A1067) (Prod. No. ALX-804-305) at 5 µg/ml. High (top panel) and low magnification (bottom panel). Caspase-3 staining is cytoplasmic in some cells and nuclear in others. Caspase-3 in the nucleus is considered to be an indication of active caspase-3. In most cell types and model systems, cells with active caspase-3 are undergoing apoptosis.

Product Literature References


Overexpression of Bcl-2 is associated with apoptotic resistance to the G-quadruplex ligand 12459 but is not sufficient to confer resistance to long-term senescence C. Douarre, et al. Nucl. Acids Res. 33 2192 (2005)


The protein kinase PKB/Akt regulates cell survival and apoptosis by inhibiting Bax conformational change

Revised 26-Jul-11