



PRODUCT DATA SHEET

Product: Anti-Caspase-9, Clone LAP6-96

Cat. No: MC-466 (100 µg)

Background:

Caspases are key effectors of programmed cell death. They are synthesized as inactive pro-enzymes, which are activated by cleavage at a specific aspartate residue to form two subunits. These subunits are normally linked together by a linker, which may be involved in the regulation of the different caspases. Caspase-9 is a member of the CED-3 family and is very similar to caspase-3. Pro-caspase-9 can be activated by either caspase-3 or granzyme B, although they cleave the pro-enzyme to different size subunits. Cleavage by granzyme B produces an active enzyme, which is capable of cleaving PARP. Also, the ability of caspase-3 to activate caspase-9 seems to suggest that caspase-9 is further downstream of caspase-3 and may be involved in later changes in cells observed undergoing apoptosis.

Ig Isotype: IgG1

Immunogen:

Synthetic peptide corresponding to amino acids 2 to 22 of human caspase-9.

Format:

Mouse monoclonal antibody against human Caspase-9 (cysteine-requiring aspartate protease-9). Available in 100 µl vials at a concentration of 1 mg/ml (100 µg) in PBS with 0.08% sodium azide. Purified by 0.2 µm sterile filtration.

Storage and Stability:

Stable for 24 months when stored at -20°C. Aliquot to avoid freeze/thaw cycles.

Applications and Suggested Dilutions:

■ Western Blot

The optimal dilution for a specific application should be determined by the researcher.

References:

1. Cohen G.M., et al. (1997) Caspases: the executioners of apoptosis. *Biochem. J.* 326: 1-16.
2. Stennicke H.R., et al. (1999) Caspase-9 can be activated without proteolytic processing. *J. Biol. Chem.* 274: 8359-8362.
3. Kuida K., et al. (2000) Caspase-9. *Inl. J. Biochem. Cell Biol.* 32: 121-124.

Limitations:

For *in vitro* research use only. Not for use in diagnostics or in humans.

Warranty:

No warranties, expressed or implied, are made regarding the use of this product. KAMIYA BIOMEDICAL COMPANY is not liable for any damage, personal injury, or economic loss caused by this product.