



PRODUCT DATA SHEET

Product: Anti-Apaf-1 mAb, clone 2E12

Cat. No.: MC-287 (100 µg)

Background:

Programmed cell death (apoptosis) requires the activation of caspases, which are in turn regulated by adaptor proteins such as Apaf-1 (activator of apoptosis protease-activating factor-1). The 136 kDa protein Apaf-1 is a mammalian homolog of *C. elegans*/CED-4, and is required for some pathways of cell death. Apaf-1 promotes the aggregation and self-processing of the initiator caspase, caspase-9 in the presence of cytochrome c and dATP. It consists of four function-determining regions: (1) an N-terminal caspase activation and recruitment domain (CARD), which is required for binding to pro-caspase-9, (2) a central CED-4 homologous region, (3) an Apaf-1 specific region, and (4) 12 identified WD40 repeats at the C-terminus of the protein.

Specificity:

Recognizes the CARD domain of human Apaf-1.

Species Reactivity:

Human, others not tested. Does not cross-react with mouse or rat Apaf-1.

Ig Isotype:

Rat IgG_{2a}

Immunogen:

FLAG-tagged recombinant human Apaf-1 (aa 1-464) containing the N-terminal CARD and CED-4 homologous domains.

Format:

100 µg of liquid Protein G purified monoclonal antibody in PBS containing 0.02% sodium azide. Concentration: 1 mg/mL.

Storage:

Store at 4°C short term. For long term, store at -20°C. Avoid multiple freeze/thaws.

Applications and Suggested Dilutions:

- Immunocytochemistry
- Immunohistochemistry: Electron microscopy on frozen sections.
- Immunoprecipitation
- Western blot
- ELISA

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

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.