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20-1003: Polyclonal antibody to APAF-1

Clonality: Polyclonal
Application: IP,IHC,WB
Reactivity: Human
Gene: APAF1
Gene ID: 317
Uniprot ID: O14727
Format: Sera

Alternative Name: APAF1,KIAA0413 Isotype: Rabbit IgG

Immunogen Information: A synthetic peptide of APAF-1 protein (amino acids 451-468 TQFQRYHQPHTLSPDQED) was

used as the immunogen for this antibody

Description

Apaf 1 (apoptosis protease-activating factor-1) is a key regulator of the mitochondrial apoptotic pathway, being the central element of the multimeric apoptosome. The apoptosome consists of cytochrome c, procaspase-9 and seven Apaf 1 monomers, and is considered to be core apoptotic machinery that executes mitochondria-dependent apoptosis. Cytochrome c, normally compartmentalized in the mitochorndria, is released into the cytoplasm following apoptotic stimuli. Apaf 1 binds cytochrome c in the cytoplasm and in the presence of dATP/ATP forms the apoptosome. The apoptosome binds procaspase-9 and promotes its autocatalytic activation. Active caspase-9, in turn, activates downstream caspases including 3, 6, and 7 contributing to the proteolytic caspase activation cascade which leads to cell death.

Product Info

Amount : $50 \mu l$ Content : $50 \mu l$ sera

Storage condition:

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Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid

repeated freeze and thaw cycles.

Application Note

WB: 1:1000-1:2000, IHC (paraffin): 1:1000-1:5000, IHC (frozen): Users should optimize, IP: 1:50-1:200

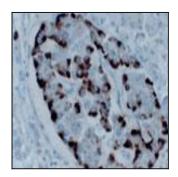


Fig:1 Formalin-fixed, paraffin-embedded tissue section of human pancreatic islets stained for Apaf 1 using 20-1003 at 1:2000. Hematoxylin-eosin counterstain.