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APAF1
Purified Mouse Monoclonal Antibody
Catalog # AO2708a

Specification

APAF1 - Product Information

Application	**E, WB, ICC**
Primary Accession	O14727
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**Mouse IgG2b**
Calculated MW	**141.8kDa KDa**

Immunogen
Purified recombinant fragment of human APAF1 (AA: 1138-1237) expressed in E. Coli.

Formulation
Purified antibody in PBS with 0.05% sodium azide

APAF1 - Additional Information

Gene ID 317

Other Names
CED4; APAF-1

Dilution
E~~ 1/10000
WB~~ 1/500 - 1/2000
ICC~~ 1/100 - 1/500

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
APAF1 is for research use only and not for use in diagnostic or therapeutic procedures.

APAF1 - Protein Information

Name APAF1 (HGNC:576)

Synonyms KIAA0413

Function
Oligomeric Apaf-1 mediates the cytochrome c-dependent autocatalytic activation of pro-caspase-9 (Apaf-3), leading to the activation of caspase-3 and apoptosis. This activation requires ATP.

Isoform 6 is less effective in inducing apoptosis.

Cellular Location
Cytoplasm.

Tissue Location
Ubiquitous. Highest levels of expression in adult spleen and peripheral blood leukocytes, and in fetal brain, kidney and lung. Isoform 1 is expressed in heart, kidney and liver

APAF1 - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

APAF1 - Images

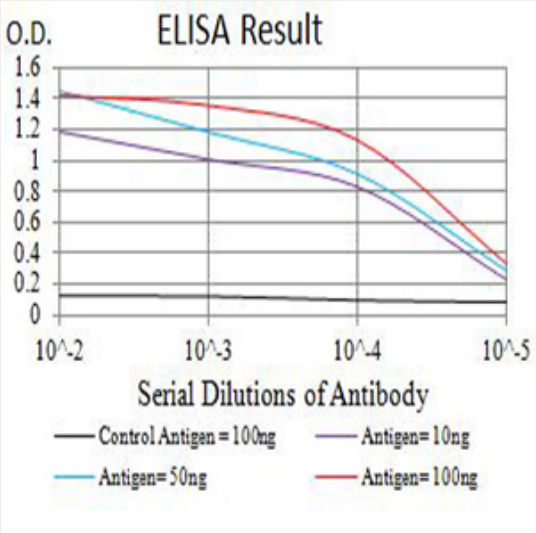

Figure 1:Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)

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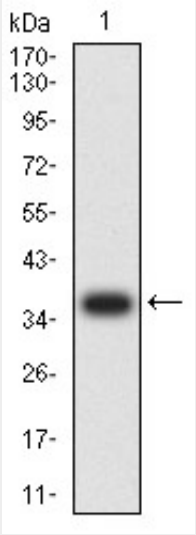

Figure 2:Western blot analysis using APAF1 mAb against human APAF1 (AA: 1138-1237) recombinant protein. (Expected MW is 37 kDa)

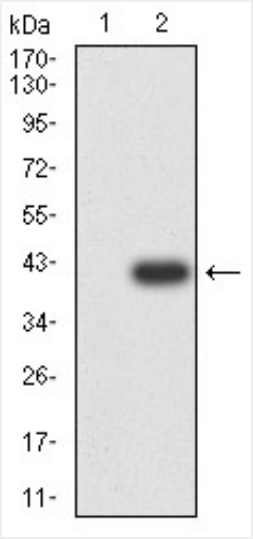

Figure 3:Western blot analysis using APAF1 mAb against HEK293 (1) and APAF1 (AA: 1138-1237)-hIgGFc transfected HEK293 (2) cell lysate.

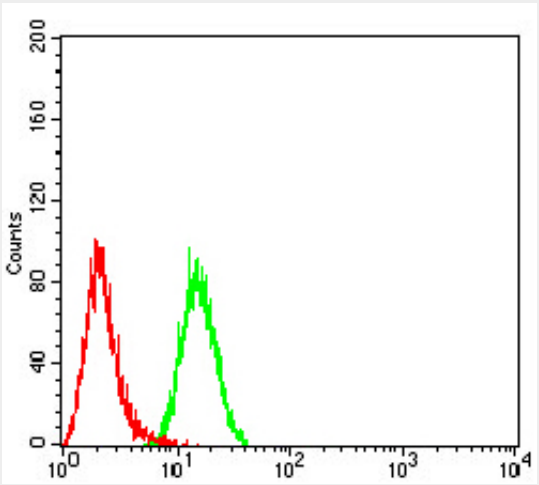

Figure 5:Flow cytometric analysis of Hela cells using APAF1 mouse mAb (green) and negative

control (red).

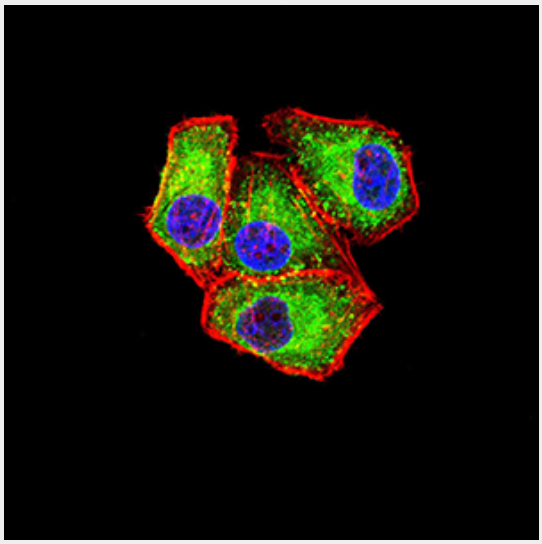

Figure 4:Immunofluorescence analysis of Hela cells using APAF1 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin. Secondary antibody from Fisher (Cat#: 35503)

APAF1 - References

1.Tumour Biol. 2014 Mar;35(3):2211-8.2.Cancer Sci. 2011 Jan;102(1):267-74.