

**APAF1**  
**Purified Mouse Monoclonal Antibody**  
**Catalog # AO2708a**

**Specification**

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**APAF1 - Product Information**

Application	E, WB, ICC
Primary Accession	<a href="#">O14727</a>
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 Cytometry](#)
- [Cell Culture](#)

### APAF1 - Images

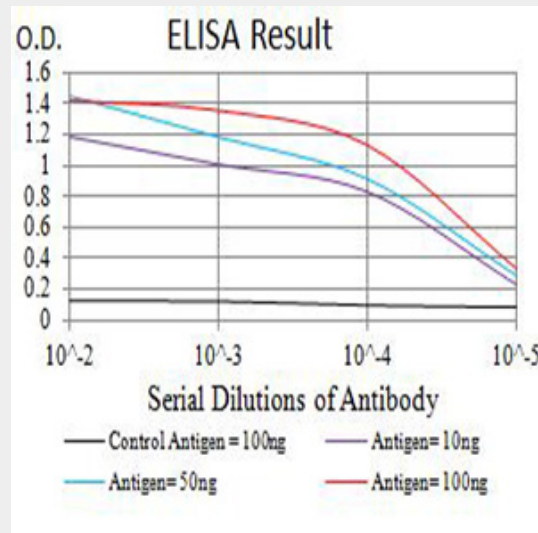


Figure 1: Black line: Control Antigen (100 ng); Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng)

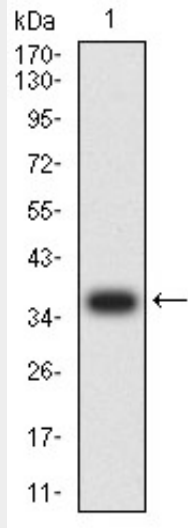


Figure 2:Western blot analysis using APAF1 mAb against human APAF1 (AA: 1138-1237) recombinant protein. (Expected MW is 37 kDa)

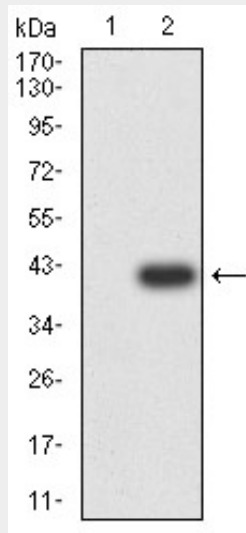


Figure 3:Western blot analysis using APAF1 mAb against HEK293 (1) and APAF1 (AA: 1138-1237)-hlgGfC transfected HEK293 (2) cell lysate.

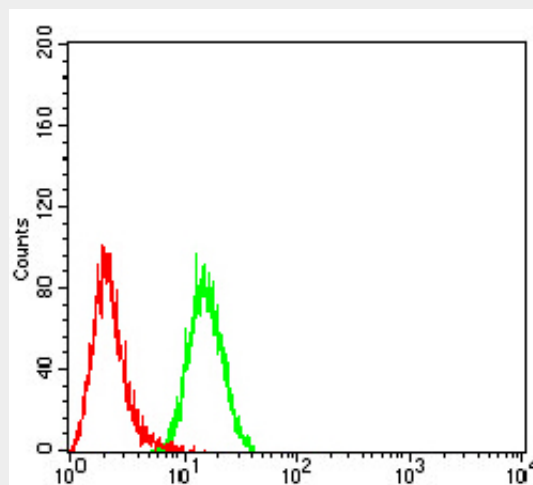


Figure 5:Flow cytometric analysis of HeLa cells using APAF1 mouse mAb (green) and negative

control (red).

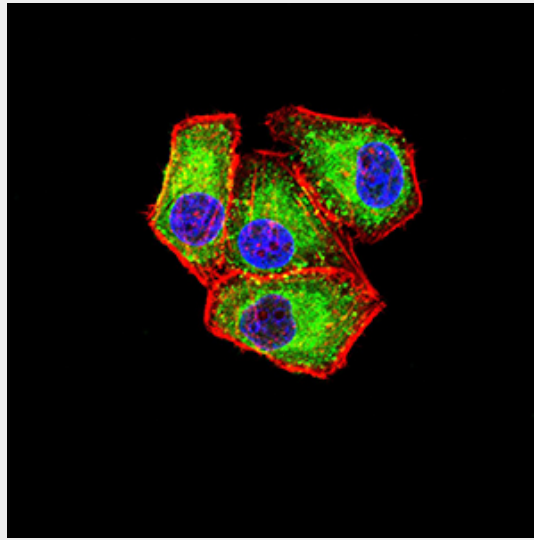


Figure 4: Immunofluorescence analysis of HeLa cells using APAF1 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin. Secondary antibody from Fisher (Cat#: 35503)

#### **APAF1 - References**

1. Tumour Biol. 2014 Mar;35(3):2211-8. 2. Cancer Sci. 2011 Jan;102(1):267-74.