

# Apaf-1 Monoclonal Antibody

Catalog No: #26002

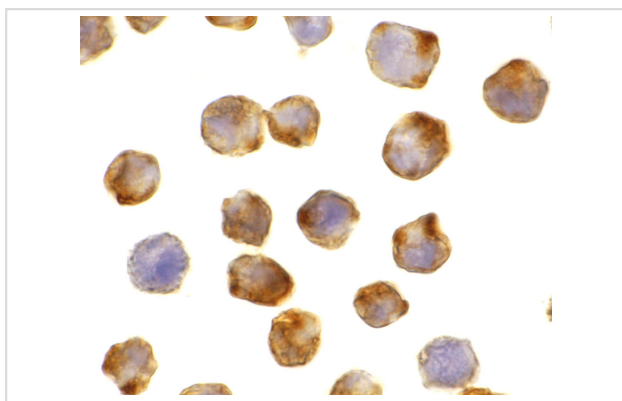
Package Size: #26002 100ul

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## Description

|                       |                                                                                  |
|-----------------------|----------------------------------------------------------------------------------|
| Product Name          | Apaf-1 Monoclonal Antibody                                                       |
| Host Species          | Mouse                                                                            |
| Clonality             | Monoclonal                                                                       |
| Clone No.             | mAb (Clone 5E11)                                                                 |
| Purification          | Immunoaffinity chromatography purified IgG                                       |
| Applications          | ELISA IHC                                                                        |
| Species Reactivity    | Hu Ms Rt                                                                         |
| Immunogen Type        | Peptide                                                                          |
| Immunogen Description | A peptide corresponding to amino acids near the carboxy terminus of human Apaf1. |
| Conjugates            | Unconjugated                                                                     |
| Target Name           | Apaf-1                                                                           |
| Other Names           | Apaf-1 (5E11), Apoptotic protease activating factor 1                            |
| Accession No.         | Swiss-Prot:O14727Gene ID:317                                                     |
| Concentration         | 1mg/ml                                                                           |
| Formulation           | Supplied in PBS containing 0.02% sodium azide.                                   |
| Storage               | Can be stored at -20°C, stable for one year.                                     |

## Images



Immunohistochemistry of Apaf1 in K562 cells with Apaf1 antibody at 0.5 ug/ml.

## Background

Apoptosis is related to many diseases and induced by a family of cell death receptors and their ligands. Cell death signals are transduced by death domain containing adapter molecules and members of the caspase family of proteases. The mammalian homologous of the key cell death gene CED-4 in *C. elegans* was identified recently from human and mouse and designated Apaf1 for apoptosis protease-activating factor 1. Apaf1 binds to cytochrome c (Apaf2) and caspase-9 (Apaf3), which leads to caspase-9 activation. Activated caspase-9 in turn cleaves and activates caspase-3 that is one of the key proteases, being responsible for the proteolytic cleavage of many key proteins in apoptosis. Apaf1 can also associate with caspase-4 and caspase-8. Apaf1 transcript is ubiquitously expressed in human tissues.

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Note: This product is for in vitro research use only and is not intended for use in humans or animals.