

APAF1 monoclonal antibody, clone 2E12

Catalog # MAB3406

Size 100 ug

Specification

Product Description	Rat monoclonal antibody raised against partial recombinant APAF1.
Immunogen	Recombinant Flag fusion protein corresponding to amino acids 1-464 of human APAF1.
Host	Rat
Reactivity	Human
Specificity	Recognizes the CARD domain of human Apaf-1. Does not cross-react with mouse or rat Apaf-1.
Form	Liquid
Isotype	IgG2a
Recommend Usage	The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.02% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot
- Immunohistochemistry (Frozen sections)
- Immunocytochemistry
- Immunoprecipitation

- Enzyme-linked Immunoabsorbent Assay

Gene Info — APAF1

Entrez GeneID [317](#)

Gene Name APAF1

Gene Alias CED4, DKFZp781B1145

Gene Description apoptotic peptidase activating factor 1

Omim ID [602233](#)

Gene Ontology [Hyperlink](#)

Gene Summary This gene encodes a cytoplasmic protein that initiates apoptosis. This protein contains several copies of the WD-40 domain, a caspase recruitment domain (CARD), and an ATPase domain (NB-ARC). Upon binding cytochrome c and dATP, this protein forms an oligomeric apoptosome. The apoptosome binds and cleaves caspase 9 preproprotein, releasing its mature, activated form. Activated caspase 9 stimulates the subsequent caspase cascade that commits the cell to apoptosis. Alternative splicing results in several transcript variants encoding different isoforms. [provided by RefSeq]

Other Designations apoptotic protease activating factor 1

Pathway

- [Amyotrophic lateral sclerosis \(ALS\)](#)
- [Apoptosis](#)
- [p53 signaling pathway](#)
- [Small cell lung cancer](#)

Disease

- [Adenocarcinoma](#)
- [Attention Deficit Disorder with Hyperactivity](#)
- [Autistic Disorder](#)

- [Cardiovascular Diseases](#)
- [Clubfoot](#)
- [Depressive Disorder](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Esophageal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Leukemia](#)
- [Lung Neoplasms](#)
- [NARP](#)
- [Neovascularization](#)
- [Pulmonary Disease](#)
- [Tobacco Use Disorder](#)
- [Urinary Bladder Neoplasms](#)
- [Werner syndrome](#)