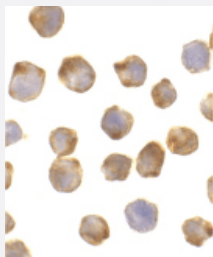


APAF1 monoclonal antibody, clone 5E11

Catalog # MAB2747 Size 100 ug

Applications



Immunocytochemistry

Immunocytochemistry of APAF1 in K-562 cells with APAF1 monoclonal antibody, clone 5E11 (Cat # MAB2747) at 0.5 ug/mL .

Specification

Product Description	Mouse monoclonal antibody raised against synthetic peptide of APAF1.
Immunogen	A synthetic peptide corresponding to amino acids near C-terminus of human APAF1.
Host	Mouse
Reactivity	Human, Mouse, Rat
Form	Liquid
Isotype	IgG
Recommend Usage	Immunohistochemistry (5-10 mg/mL) 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 three months. 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

- Immunohistochemistry
- Immunocytochemistry

Immunocytochemistry of APAF1 in K-562 cells with APAF1 monoclonal antibody, clone 5E11 (Cat # MAB2747) at 0.5 ug/mL .

Gene Info — APAF1

Entrez GeneID [317](#)

Protein Accession# [n/a](#)

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

Publication Reference

- [Apaf1 \(CED-4 homolog\) regulates programmed cell death in mammalian development.](#)

Cecconi F, Alvarez-Bolado G, Meyer BI, Roth KA, Gruss P.

Cell 1998 Sep; 94(6):727.

- [Bcl-XL interacts with Apaf-1 and inhibits Apaf-1-dependent caspase-9 activation.](#)

Hu Y, Benedict MA, Wu D, Inohara N, Nunez G.

PNAS 1998 Apr; 95(8):4386.

- [Cytochrome c and dATP-dependent formation of Apaf-1/caspase-9 complex initiates an apoptotic protease cascade.](#)

Li P, Nijhawan D, Budihardjo I, Srinivasula SM, Ahmad M, Alnemri ES, Wang X.

Cell 1997 Nov; 91(4):479.

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](#)