

## Product datasheet for TA319612

### APAF1 Mouse Monoclonal Antibody [Clone ID: 5E11]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	5E11
Applications:	IHC
Recommend Dilution:	ICC: 0.5 mg/mL
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Clonality:	Monoclonal
Immunogen:	A peptide corresponding to amino acids near the carboxy terminus of human Apaf1.
Formulation:	Apaf-1 Monoclonal Antibody is supplied in PBS containing 0.02% sodium azide.
Concentration:	1ug/ul
Purification:	Apaf-1 Monoclonal Antibody is immunoaffinity chromatography purified IgG.
Gene Name:	apoptotic peptidase activating factor 1
Database Link:	<a href="#">NP_001151</a> <a href="#">Entrez Gene 11783 Mouse</a> <a href="#">Entrez Gene 78963 Rat</a> <a href="#">Entrez Gene 317 Human</a>
Background:	Apaf-1 Monoclonal Antibody: 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 <i>C. elegans</i> 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.
Synonyms:	APAF-1; CED4
Protein Families:	Druggable Genome
Protein Pathways:	Alzheimer's disease, Amyotrophic lateral sclerosis (ALS), Apoptosis, Huntington's disease, p53 signaling pathway, Parkinson's disease, Small cell lung cancer



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**Product images:**



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