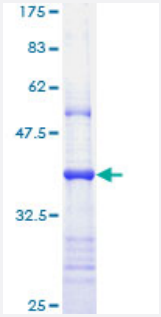
APAF1 (Human) Recombinant Protein (Q01)

Catalog # H00000317-Q01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human APAF1 partial ORF (NP_037361, 1138 a.a. - 1237 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	GEIRIWNVSNGELLHLCAPLSEEGAATHGGWVTDLCFSPDGKMLISAGGYIKWWNVVTGESSQTF YTNGTNLKKIHVSPDFKTYVTVDNLGILYILQTLE
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.85
Preparation Method	*in vitro* wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — APAF1

Entrez GeneID	317
GeneBank Accession#	NM_013229
Protein Accession#	NP_037361
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 co pies 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. Ac tivated 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