



Anti-APAF1 (aa 1138-1237) polyclonal antibody (DPAB-DC1580)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

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| Antigen Description | 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. |
| Immunogen | APAF1 (NP_037361, 1138 a.a. ~ 1237 a.a) partial recombinant protein with GST tag. The sequence is GEIRIWNVSNGELLHLCAPLSEEGAATHGGWVTDLCSFSPDGKMLISAGGYIKWWNVVTGE SSQTFYTNGTNLKKIHVSPDFKTYVTVDNLGILYILQTLE |
| Source/Host | Mouse |
| Species Reactivity | Human |
| Conjugate | Unconjugated |
| Applications | WB (Recombinant protein), ELISA, |
| Size | 50 µl |
| Buffer | 50 % glycerol |
| Preservative | None |
| Storage | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing. |

GENE INFORMATION

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| Gene Name | APAF1 apoptotic peptidase activating factor 1 [Homo sapiens (human)] |
| Official Symbol | APAF1 |
| Synonyms | APAF1; apoptotic peptidase activating factor 1; CED4; APAF-1; apoptotic protease-activating factor 1; |
| Entrez Gene ID | 317 |
| Protein Refseq | NP_001151 |
| UniProt ID | O14727 |
| Chromosome Location | 12q23 |
| Pathway | Activation of caspases through apoptosome-mediated cleavage; Alzheimers Disease; Apoptosis; Apoptosis Modulation by HSP70 |
| Function | ADP binding; ATP binding; cysteine-type endopeptidase activator activity involved in apoptotic process; identical protein binding |