



Polyclonal Anti- Apoptotic peptidase activating factor 1, **APAF1**

Catalogue No. PA1249

Lot No. 09G01

Ig type rabbit IgG

Size 100µg/vial

Specificity

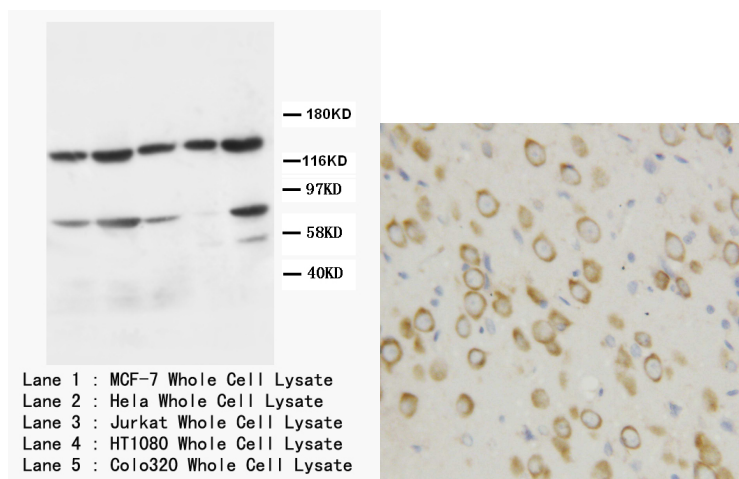
Human, rat, mouse.

No cross reactivity with other proteins.

Recommended application

Western blot

Immunohistochemistry (P)



Immunogen

A synthetic peptide corresponding to a sequence at the N-terminal of human APAF1, identical to the related rat and mouse sequence.

Purity

Immunogen affinity purified.

Application

	Concentration	Tested Species	Concluded Species	Antigen Retrieval
WB	1µg/ml	Hu	-	-
IHC-P	2µg/ml	Rat	Ms	By Heat
IHC-F	-	-	-	-
ICC	-	-	-	-

Other applications have not been tested.

Optimal dilutions should be determined by end user.

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Thimerosal, 0.05mg NaN₃.

Reconstitution

0.2ml of distilled water will yield a concentration of 500µg/ml.

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for longer time.

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BACKGROUND

Apoptotic peptidase activating factor 1, also known as APAF1, is a protein which in humans is encoded by the *APAF1* gene. This gene is mapped to chromosome 12q23.¹ It encodes a cytoplasmic protein that initiates apoptosis. And it is an essential downstream effector of p53-mediated apoptosis.² This protein contains several copies of the WD40 repeat domain, a caspase recruitment domain (CARD), and an ATPase domain (NB-ARC). In the presence of cytochrome c and dATP, APAF1 assembles into an oligomeric apoptosome, which is responsible for activation of procaspase-9 and maintenance of the enzymatic activity of processed caspase-9.³ Furthermore, APAF1 is inactivated in metastatic melanomas, leading to defects in the execution of apoptotic cell death.⁴ Additionally, APAF1 has been shown to interact with NLRP1,⁵ Caspase-9,^{5, 6, 7, 8, 9, 10} APIP,⁶ BCL2-like 1^{8, 9} and HSPA4.¹⁰

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