

39-2097: Polyclonal Antibody to Anti-APAF1 Antibody(Discontinued)

Clonality :	Polyclonal
Application :	WB
Reactivity :	Human
Gene :	APAF1
Gene ID :	317
Uniprot ID :	O14727
Alternative Name :	Apoptotic protease-activating factor 1; APAF-1; APAF1; KIAA0413
Isotype :	Rabbit IgG
Immunogen Information :	A synthetic peptide corresponding to a sequence at the N-terminal of human APAF1, identical to the related mouse sequence, and different from the related rat sequence by one amino acid.

Description

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. It encodes a cytoplasmic protein that initiates apoptosis. And it is an essential downstream effector of p53-mediated apoptosis. 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. Furthermore, APAF1 is inactivated in metastatic melanomas, leading to defects in the execution of apoptotic cell death. Additionally, APAF1 has been shown to interact with NLRP1, Caspase-9, APIP, BCL2-like 1 and HSPA4.

Product Info

Amount :	100 µg/vial
Purification :	Immunogen affinity purified.
Content :	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ . Reconstitute : Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Storage condition :	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 a longer time. Avoid repeated freezing and thawing.

Application Note

Western blot : 0.1-0.5µg/ml; Immunohistochemistry(Paraffin-embedded Section) : 0.5-1µg/ml

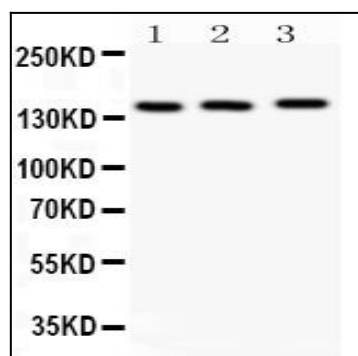


Figure 1: Anti-APAF1 antibody(39-2097). Western blotting: Lanes: Anti APAF1(39-2097) at 0.5ug/ml with Lane 1: Rat Brain Tissue Lysate at 50ug, Lane 2: COLO320 Whole Cell Lysate at 40ug, Lane 3: MCF-7 Whole Cell Lysate at 40ug. Predicted band size: 140 kDa. Observed band size: 140 kDa.