

Apaf-1 Rabbit mAb

Catalog No: #48769

Package Size: #48769-1 50ul #48769-2 100ul

Orders: order@signalwayantibody.comSupport: tech@signalwayantibody.com

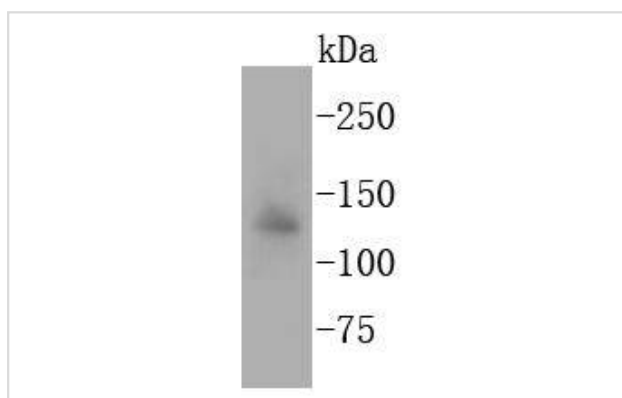
Description

| | |
|-----------------------|--|
| Product Name | Apaf-1 Rabbit mAb |
| Host Species | Recombinant Rabbit |
| Clonality | Monoclonal antibody |
| Clone No. | SY22-02 |
| Purification | ProA affinity purified |
| Applications | WB, ICC/IF, IHC |
| Species Reactivity | Hu, Ms |
| Immunogen Description | recombinant protein |
| Other Names | APAF 1 antibody Apaf-1 antibody APAF_HUMAN antibody Apaf1 antibody Apoptotic peptidase activating factor 1 antibody Apoptotic protease activating factor 1 antibody Apoptotic protease activating factor antibody Apoptotic protease-activating factor 1 antibody CED 4 antibody CED4 antibody KIAA0413 antibody |
| Accession No. | Swiss-Prot#:O14727 |
| Uniprot | O14727 |
| GeneID | 317; |
| Calculated MW | 141 kDa |
| Formulation | 1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide. |
| Storage | Store at -20°C |

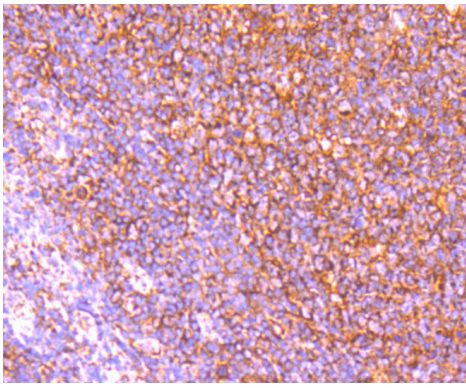
Application Details

WB: 1:1,000 IHC: 1:50-1:200 ICC: 1:50-1:200

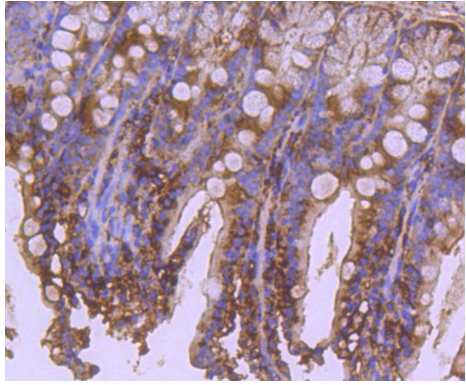
Images



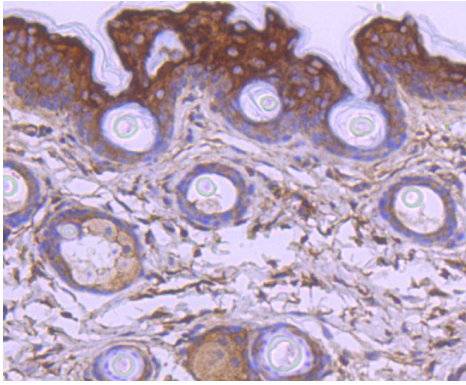
Western blot analysis of Apaf-1 on HUVEC cell lysates using anti-Apaf-1 antibody at 1/1,000 dilution.



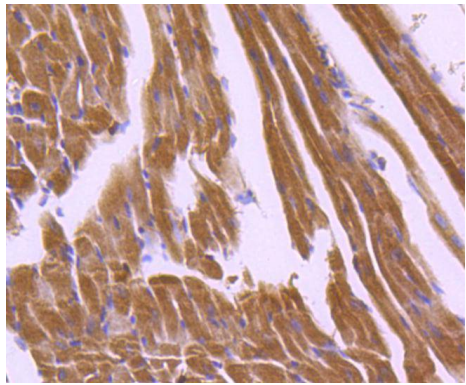
Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-Apaf-1 antibody. Counter stained with hematoxylin.



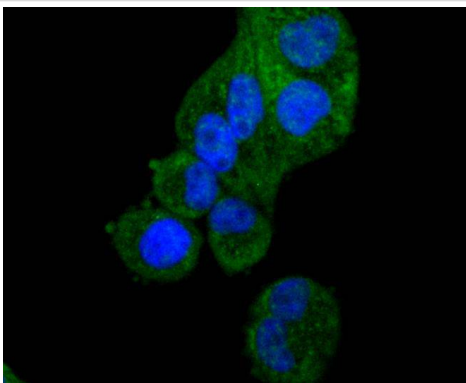
Immunohistochemical analysis of paraffin-embedded mouse colon tissue using anti-Apaf-1 antibody. Counter stained with hematoxylin.



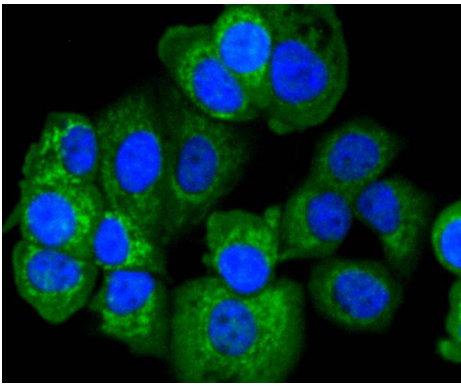
Immunohistochemical analysis of paraffin-embedded mouse skin tissue using anti-Apaf-1 antibody. Counter stained with hematoxylin.



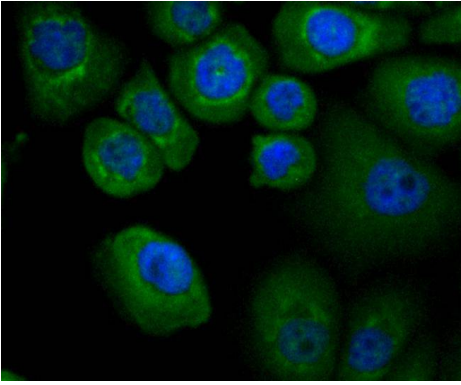
Immunohistochemical analysis of paraffin-embedded mouse heart tissue using anti-Apaf-1 antibody. Counter stained with hematoxylin.



ICC staining Apaf-1 in HeLa cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining Apaf-1 in MCF-7 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining Apaf-1 in Ags cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

Background

The mammalian homologs of the Ced-4 proteins, Apaf-1 (Ced-4), Nod1 (CARD4), and Nod2 contain a caspase recruitment domain (CARD) and a putative nucleotide binding domain, signified by a consensus Walker's A box (P-loop) and B box (Mg²⁺-binding site). Nod1 contains a putative regulatory domain and multiple leucine-rich repeats. Nod1 is a member of a growing family of intracellular proteins which share structural homology to the apoptosis regulator Apaf-1. Nod1 associates with the CARD-containing kinase RICK and activates NFκB. The self-association of Nod1 mediates proximity of RICK and the interaction of RICK with IKK γ . In addition, Nod-1 binds to multiple caspases with long prodomains, but specifically activates caspase-9 and promotes caspase-9-induced apoptosis. Nod2 is composed of two N-terminal CARDs, a nucleotide-binding domain, and multiple C-terminal leucine-rich repeats. The expression of Nod2 is highly restricted to monocytes, and activates NFκB in response to bacterial lipopoly-saccharides.

References

Note: This product is for in vitro research use only