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Anti-ARTS, rabbit polyclonal

Catalog Number: 905-172

Quantity: 100 µg

Background: Apoptosis is related to many diseases and development. Mitochondrial proteins, such as cytochrome *c,* Apaf-1, and AIF play important role in apoptosis. A novel mitochondrial septin-like protein was identified recently and designated ARTS for apoptosis related protein in TGF-β signaling pathway (1). ARTS that is encoded by the human septin H5/PNUTL2/CDCrel2b gene (1-4) is located to mitochondria and translocates to the nucleus when apoptosis occurs. ARTS is expressed in many tissues. It enhances cell death induced by TGF-β and, to a lesser extent, by other apoptotic agents, such as TNF-α and Fas ligand.

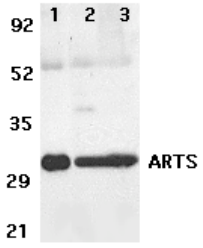
Source: Rabbit anti-ARTS polyclonal antibody was raised against a synthetic peptide (KRFLEDTTDDGE) corresponding to amino acids 3 to 14 of human ARTS (1).

Purification: Affinity Purified

Form: In PBS containing 0.02% sodium azide.

Stability: Stable for one year when stored at 4˚C.

Application: This antibody can be used for detection of ARTS by Western blot at 0.5 to 2 µg/mL. Human lung, kidney and spleen tissue lysates can be used as a positive control and a band at 32 kDa can be detected. For research use only.



Western blot analysis of ARTS expression in human lung (lane1), spleen (lane 2), and kidney (lane 3) tissue lysates with anti-ARTS at 2 µg/mL.

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References:

1. Larisch S, Yi Y, Lotan R, Kerner H, et al. A novel mitochondrial septin-like protein, ARTS, mediates apoptosis dependent on its P-loop motif. *Nat Cell Biol* 2000;2(12):915-21

2. Depraetere V. The ARTS of apoptosis. *Nat Cell Biol.* 2000;2(12):E219.

3. Paavola,P., Horelli-Kuitunen,N., Palotie,A. and Peltonen,L. Characterization of a novel gene, PNUTL2, on human chromosome 17q22-q23 and its exclusion as the Meckel syndrome gene. *Genomics* 1999;55 (1):122-125

4. Zieger,B., Tran,H., Hainmann,I., Wunderle,D., Zgaga-Griesz,A., Blaser,S. and Ware,J. Characterization and expression analysis of two human septin genes, PNUTL1 and PNUTL2. *Gene* 2000;261(2):197-203

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