

Data Sheet

Reconstitution/ Storage	50 µg specific antibody, lyophilized. Affinity purified with the immunogen. Rabbit serum albumin was added for stabilization. For reconstitution add 50 µl H ₂ O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use.
Applications	WB: 1 : 1000 (AP staining) IP: not recommended ICC: 1 : 500 IHC: not tested yet IHC-P/FFPE: not tested yet
Immunogen	Synthetic peptide corresponding to AA 514 to 529 from mouse AiF (UniProt Id: Q9Z0X1)
Reactivity	Reacts with: human, rat, mouse. Other species not tested yet.
Specificity	Specific for AiF.
matching control	300-0P

TO BE USED IN VITRO / FOR RESEARCH ONLY
NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS

In healthy cells the apoptosis-inducing factor **AiF**, also referred to as **PDCD 8**, localizes to the inner membrane of mitochondria where it functions as an oxidoreductase. After permeabilization of the outer mitochondrial membrane, which is common to apoptotic pathways, AiF is released from mitochondria and translocated to the nucleus. There it contributes to apoptotic chromatin condensation and DNA degradation.

Selected General References

AiF depletion provides neuroprotection through a preconditioning effect.

Öxler EM, Dolga A, Culmsee C

Apoptosis : an international journal on programmed cell death (2012) 17(10): 1027-38.

Apoptosis-inducing factor (AIF): a ubiquitous mitochondrial oxidoreductase involved in apoptosis.

Daugas E, Nochy D, Ravagnan L, Loeffler M, Susin SA, Zamzami N, Kroemer G

FEBS letters (2000) 476(3): 118-23.

Mitochondrio-nuclear translocation of AIF in apoptosis and necrosis.

Daugas E, Susin SA, Zamzami N, Ferri KF, Irinopoulou T, Larochette N, Prévost MC, Leber B, Andrews D, Penninger J, Kroemer G, et al.

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