

## AIF polyclonal antibody

Catalog: BCP00165

Host: Rabbit

Reactivity: Human,Rat,Mouse

**BackGround:**

Apoptosis-inducing factor (AIF, PDCD8) is a ubiquitously expressed flavoprotein that plays a critical role in caspase-independent apoptosis. AIF is normally localized to the mitochondrial intermembrane space and released in response to apoptotic stimuli. Treatment of isolated nuclei with recombinant AIF leads to early apoptotic events, such as chromatin condensation and large-scale DNA fragmentation. Studies of AIF knockout mice have shown that the apoptotic activity of AIF is cell type and stimulus-dependent. Also noted was that AIF was required for embryoid body cavitation, representing the first wave of programmed cell death during embryonic morphogenesis. Structural analysis of AIF revealed two important regions, the first having oxidoreductase activity and the second being a potential DNA binding domain. While AIF is redox-active and can behave as an NADH oxidase, this activity is not required for inducing apoptosis. Instead, recent studies suggest that AIF has dual functions, a pro-apoptotic activity in the nucleus via its DNA binding and an anti-apoptotic activity via the scavenging of free radicals through its oxidoreductase activity.

**Product:**

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.4.

**Molecular Weight:**

~ 72 kDa

**Swiss-Prot:**

O95831

**Purification&Purity:**

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

**Applications:**

WB: 1:2000~1:5000

IP: 1:2000~1:5000

**Storage&Stability:**

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

**Specificity:**

AIF polyclonal antibody detects endogenous levels of AIF protein.

**DATA:**

Western blot (WB) analysis of AIF polyclonal antibody at 1:5000 dilution

Lane1:PC12 whole cell lysate(40ug)

Lane2:CT-26 whole cell lysate(40ug)

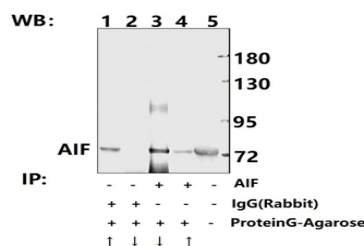
Lane3:HeLa whole cell lysate(40ug)

Lane4:Jurkat whole cell lysate(40ug)

Lane5:The Kidney tissue lysate of Mouse(40ug)

Lane6:HepG2 whole cell lysate(40ug)

Lane7:HEK293T whole cell lysate(40ug)



Immunoprecipitation - AIF Polyclonal Antibody

**Note:**

For research use only, not for use in diagnostic procedure.