

Datasheet: VPA00017KT

Description:	AIF ANTIBODY WITH CONTROL LYSATE
Specificity:	AIF
Format:	Purified
Product Type:	PrecisionAb™ Polyclonal
Isotype:	Polyclonal IgG
Quantity:	2 Westerns

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Western Blotting	▪			1/1000

PrecisionAb antibodies have been extensively [validated for the western blot application](#). The antibody has been validated at the suggested dilution. Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Further optimization may be required dependant on sample type.

Target Species	Human
Species Cross Reactivity	Reacts with: Rat, Mouse N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG - liquid
Preparation	20µl Rabbit polyclonal antibody purified by ion exchange chromatography
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Immunogen	Peptide corresponding to amino acids 517 - 531 of human AIF
External Database Links	<p>UniProt: O95831 Related reagents</p> <p>Entrez Gene: 9131 AIFM1 Related reagents</p>
Synonyms	AIF, PDCD8

Specificity **Rabbit anti Human AIF antibody** recognizes human apoptosis-inducing factor (AIF), also known as human apoptosis-inducing factor 1, mitochondrial and programmed cell death protein 8. AIF is a 613 amino acid member of the FAD-dependent oxidoreductase family. Rabbit anti Human AIF antibody reacts with an internal region of AIF (within the region aa 517-531). AIF is widely expressed in human tissues and localizes in the mitochondria. AIF translocates to the nucleus upon induction of apoptosis. Multiple isoforms of AIF are generated by alternative splicing. Rabbit anti Human AIF antibody recognizes isoforms 1, 2, 3 and 5. It is not expected to recognize isoform 4 or 6 as they lack the immunogen sequence.

Mutations in the AIFM1 gene can result in various disease conditions including [COXPD6](#) and [Cowchock syndrome](#).

Rabbit anti Human AIF antibody recognizes human AIF as a single band of ~67 kDa in multiple human cell line lysates and cross reacts with rodent cell line lysates tested.

Western Blotting Anti AIF antibody detects a band of approximately 67 kDa in HEK293 cell lysates.

Instructions For Use Please refer to the [PrecisionAb western blotting protocol](#). For additional information on secondary antibody dilution and exposure time see product web page.

Lysate Composition 400µg HEK293 lysate lyophilized in RIPA buffer.

Lysate Reconstitution - If using DDT reconstitute the lyophilized lysate with 190µl DI H₂O, add 200µl 2x Laemmli Sample Buffer and 10µl 2M DTT.
- If using BME reconstitute the lyophilized lysate with 180µl DI H₂O, add 200µl 2x Laemmli Sample Buffer and 20µl BME.
Heat at 95°C for 5 minutes. For 10 well mini gels load 25µl. For other gel and comb formats please refer to the PrecisionAb western blotting protocol.

Storage Antibody: Store undiluted at -20°C, avoiding repeated freeze thaw cycles.

Lysate: Store lyophilized lysate at -20°C. After reconstitution aliquot and store at -20°C for up to 3 months or at -80°C for longer term storage.

Shelf Life As supplied, 12 months from date of despatch.

Acknowledgements PrecisionAb™ is a trademark of Bio-Rad Laboratories.

Health And Safety Information Material Safety Datasheet documentation #10040 #10561 available at:
Antibody (10040): <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>
Lysate Material (10561): <https://www.bio-rad-antibodies.com/uploads/MSDS/10561.pdf>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Rabbit IgG (H/L) (STAR208...) [HRP](#)

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