

For Research Use Only

# AIF Recombinant antibody, PBS Only (Detector)

Catalog Number: 86156-1-PBS



## Basic Information

<b>Catalog Number:</b> 86156-1-PBS	<b>GenBank Accession Number:</b> BC111065	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug , Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 9131	<b>CloneNo.:</b> 250772G11
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> O95831	
<b>Isotype:</b> IgG	<b>Full Name:</b> apoptosis-inducing factor, mitochondrion-associated, 1	
<b>Immunogen Catalog Number:</b> AG13268	<b>Calculated MW:</b> 609 aa, 66 kDa	
	<b>Observed MW:</b> 67 kDa	

## Applications

**Tested Applications:**  
WB, IF/ICC, Cytometric bead array, Indirect ELISA, Sample test

**Species Specificity:**  
human, mouse, rat

## Product Information

86156-1-PBS targets AIF as part of a matched antibody pair:

MP02287-1: 86156-2-PBS capture and 86156-1-PBS detection (validated in Cytometric bead array)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

## Background Information

Apoptosis-inducing factor (AIF) is one of the mitochondrial proteins to be released into the cytosol during apoptosis, and it is discovered as the first protein that regulates caspase-independent apoptosis (PMID:20494118). AIF is encoded as a 67 kDa protein that contains a mitochondrial localization signal (MLS) in the N-terminus. It is cleaved from the 62 kDa to the 57 kDa form following ischemic injury and translocated from the mitochondria to the nucleus in a calpain-dependent manner (PMID:19332058).

## Storage

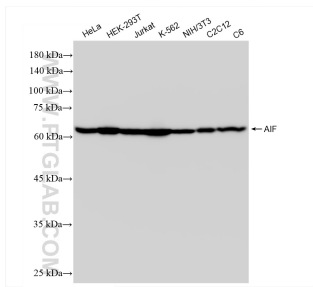
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS only, pH7.3

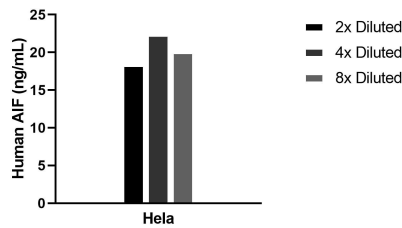
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

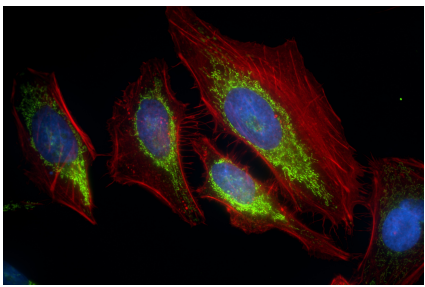
## Selected Validation Data



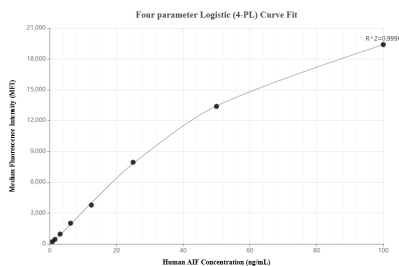
Various lysates were subjected to SDS PAGE followed by western blot with 86156-1-RR (AIF antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 86156-1-PBS in a different storage buffer formulation.



The mean AIF concentration was determined to be 20.2 ng/mL in HeLa cell extract based on a 0.9 mg/mL extract load.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using AIF antibody (86156-1-RR, Clone: 250772G11) at dilution of 1:1000 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red). This data was developed using the same antibody clone with 86156-1-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MPO2287-1, AIF Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 86156-2-PBS. Detection antibody: 86156-1-PBS. Standard: Ag13268. Range: 0.781-100 ng/mL.