

## Product datasheet for **AP20480PU-S**

### Iba1 (AIF1) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	<b>Western blot:</b> 1/500 - 1/1000. <b>Immunohistochemistry on paraffin sections</b> 1/50 - 1/200. <b>Immunofluorescence:</b> 1/50 - 1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide in the region aa 50-100 of human AIF1
Specificity:	This antibody detects endogenous levels of AIF-M1 protein. (region surrounding Tyr85)
Formulation:	Phosphate buffered saline (PBS) with 0.05% sodium azide, approx. pH 7.2. State: Aff - Purified State: Liquid purified Ig fraction
Concentration:	1.0 mg/ml
Purification:	Affinity chromatography (> 95% (by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~ 67 kDa
Gene Name:	allograft inflammatory factor 1
Database Link:	<u><a href="#">Entrez Gene 11629 Mouse</a></u> <u><a href="#">Entrez Gene 29427 Rat</a></u> <u><a href="#">Entrez Gene 199 Human P55008</a></u>



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**Background:**

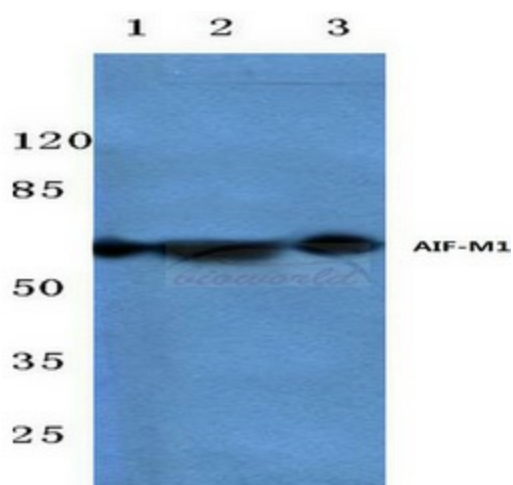
Apoptosis is characterized by several morphological nuclear changes including chromatin condensation and nuclear fragmentation. These changes are triggered by the activation of members of caspase family, caspase activated DNase, and several novel proteins. A novel gene, the product of which causes chromatin condensation and DNA fragmentation, was recently identified, cloned, and designated apoptosis inducing factor (AIF). Like the critical molecules, cytochrome c and caspase 9, in apoptosis, AIF localizes in mitochondria. AIF translocates to the nucleus when apoptosis is induced and induces mitochondria to release the apoptogenic proteins cytochrome c and caspase 9. AIF induces chromatin condensation and large scale DNA fragmentation, which are the hallmarks of apoptosis, of the isolated nucleus and the nucleus in live cells by microinjection and apoptosis stimuli. AIF is highly conserved between human and mouse and widely expressed.

**Synonyms:**

AIF-1, Protein G1, IBA1, Allograft inflammatory factor 1

**Protein Families:**

Druggable Genome

**Product images:**

Western Blot Analysis using of ant AIF1 on MCF7 cells (lane 1), Mouse liver tissue lysate (lane 2) and rat heart tissue lysate (land 3)