

## ARG66956 anti-AIF1 / Iba 1 antibody

Package: 100 µl  
Store at: -20°C

### Summary

|                     |                                                                                                                   |
|---------------------|-------------------------------------------------------------------------------------------------------------------|
| Product Description | Rabbit Polyclonal antibody recognizes AIF1 / Iba 1                                                                |
| Tested Reactivity   | Hu, Ms, Rat                                                                                                       |
| Tested Application  | IHC-Fr, IHC-P, WB                                                                                                 |
| Host                | Rabbit                                                                                                            |
| Clonality           | Polyclonal                                                                                                        |
| Isotype             | IgG                                                                                                               |
| Target Name         | AIF1 / Iba 1                                                                                                      |
| Species             | Human                                                                                                             |
| Immunogen           | Synthetic peptide around the C-terminal region of Human AIF1 / Iba1.                                              |
| Conjugation         | Un-conjugated                                                                                                     |
| Alternate Names     | Ionized calcium-binding adapter molecule 1; Allograft inflammatory factor 1; IBA1; IRT-1; IRT1; AIF-1; Protein G1 |

### Application Instructions

| Application table | Application | Dilution       |
|-------------------|-------------|----------------|
|                   | IHC-Fr      | 1:100 - 1:300  |
|                   | IHC-P       | 1:100 - 1:300  |
|                   | WB          | 1:500 - 1:1000 |

**Application Note**  
IHC-P: Antigen Retrieval: Boil tissue section in Sodium Citrate buffer (pH 6.0) followed by cooling at RT for 20 min.  
\* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

**Positive Control**  
Brain tissue

**Observed Size**  
~15 kDa

### Properties

|                     |                                                                                                                                                                                                       |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Form                | Liquid                                                                                                                                                                                                |
| Purification        | Affinity purified.                                                                                                                                                                                    |
| Buffer              | 100 mM Tris Glycine (pH 7.0), 0.025% ProClin 300, 20% Glycerol and 1% BSA.                                                                                                                            |
| Preservative        | 0.025% ProClin 300                                                                                                                                                                                    |
| Stabilizer          | 20% Glycerol and 1% BSA                                                                                                                                                                               |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated |

freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

**Note** For laboratory research only, not for drug, diagnostic or other use.

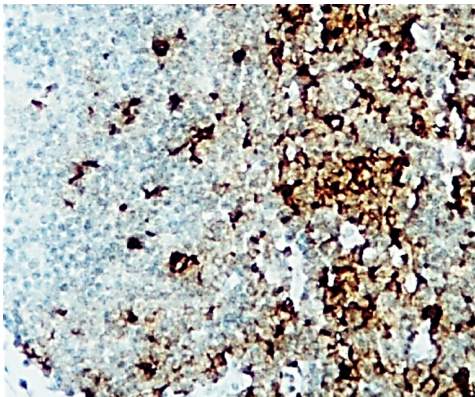
## Bioinformation

---

|                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Gene Symbol    | AIF1                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Gene Full Name | allograft inflammatory factor 1                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Background     | AIF1 / Iba 1 is a protein that binds actin and calcium. This gene is induced by cytokines and interferon and may promote macrophage activation and growth of vascular smooth muscle cells and T-lymphocytes. Polymorphisms in this gene may be associated with systemic sclerosis. Alternative splicing results in multiple transcript variants, but the full-length and coding nature of some of these variants is not certain. [provided by RefSeq, Jan 2016] |
| Function       | AIF1 / Iba 1 is an Actin-binding protein. It enhances membrane ruffling and RAC activation. Enhances the actin-bundling activity of LCP1. Binds calcium. Plays a role in RAC signaling and in phagocytosis. May play a role in macrophage activation and function. Promotes the proliferation of vascular smooth muscle cells and of T-lymphocytes. Enhances lymphocyte migration. Plays a role in vascular inflammation. [UniProt]                             |
| Highlight      | Related Antibody Duos and Panels:<br><a href="#">ARG30324 Neuroinflammation Antibody Panel</a><br>Related products:<br><a href="#">AIF1 antibodies</a> ; <a href="#">AIF1 Duos / Panels</a> ; <a href="#">Anti-Rabbit IgG secondary antibodies</a> ;                                                                                                                                                                                                            |
| Research Area  | Cell Biology and Cellular Response antibody; Immune System antibody; Metabolism antibody; Neuroscience antibody; Activated Macrophage/Microglia Study antibody; Neuroinflammation Study antibody; Macrogial Marker antibody                                                                                                                                                                                                                                     |
| Calculated Mw  | 17 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| PTM            | Phosphorylated on serine residues. [UniProt]                                                                                                                                                                                                                                                                                                                                                                                                                    |

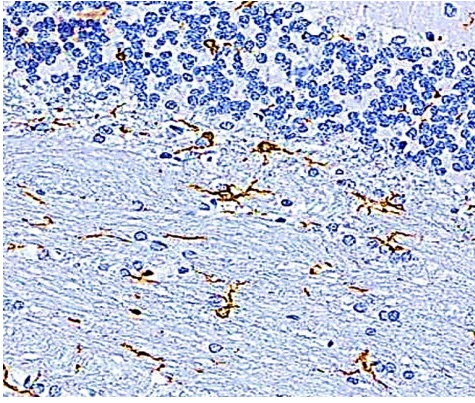
## Images

---



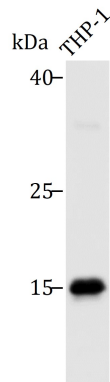
ARG66956 anti-AIF1 / Iba 1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded human lymph node carcinoma tissue stained with ARG66956 anti-AIF1 / Iba 1 antibody at 1:200 dilution.



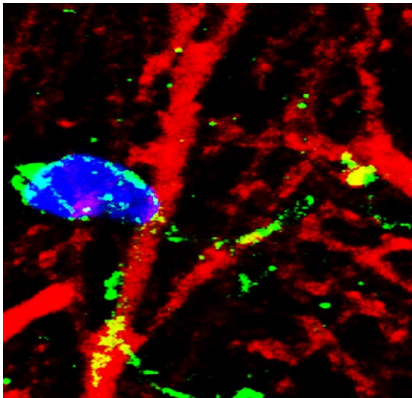
ARG66956 anti-AIF1 / Iba 1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded mouse brain tissue stained with ARG66956 anti-AIF1 / Iba 1 antibody at 1:200 dilution. Antigen Retrieval: Boil tissue section in Citrate buffer (pH 6.0).



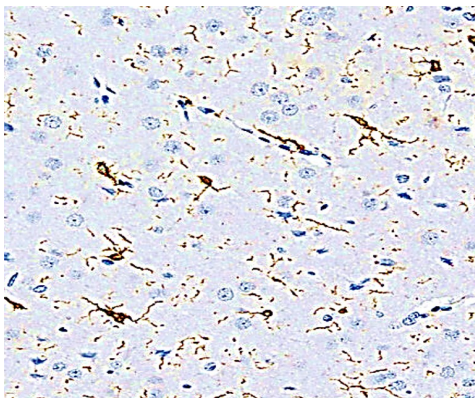
ARG66956 anti-AIF1 / Iba 1 antibody WB image

Western blot: 45 µg of THP-1 cell lysate stained with ARG66956 anti-AIF1 / Iba 1 antibody at 1:500 dilution, overnight at 4°C.



ARG66956 anti-AIF1 / Iba 1 antibody IHC-Fr image

Immunohistochemistry: Frozen section of Mouse hippocampus tissue stained with ARG66956 anti-AIF1 / Iba 1 antibody (green) at 1:200 dilution. Nuclei are stained with DAPI (blue).



ARG66956 anti-AIF1 / Iba 1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Rat brain tissue stained with ARG66956 anti-AIF1 / Iba 1 antibody at 1:200 dilution.