## Mouse Anti-IBA1/ AIF1 Recombinant [rAIF1/1909]: MC0315, MC0315RTU7

**Intended Use:** For Research Use Only

**Description:** IBA1 or AIF1 is a cytoplasmic, calcium-binding protein that is thought to play a role in macrophage activation and function. AIF1, containing two EF domains, is induced by cytokines and Interferons. In an unstimulated state, AIF1 colocalizes with actin, and upon stimulation, translocates to lamellipodia. It is also a marker of human microglia and is expressed by macrophages in injured skeletal muscle. The gene encoding AIF1 resides in the tumor necrosis factor (TNF) cluster of genes, located in the region represented by the human major histocompatibility complex (MHC).

### Specifications

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| Clone: | rAIF1/1909 |
| Source: | Mouse |
| Isotype: | IgG1k |
| Reactivity: | Human |
| Localization: | Membrane, cytoplasm |
| Formulation: | Antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN3) |
| Storage: | Store at 2°- 8°C |
| Applications: | IHC |
| Package: | |

| Description | Catalog No. | Size |
|---|---|---|
| IBA1/ AIF1 Recombinant Concentrated | MC0315 | 1 ml |
| IBA1/ AIF1 Recombinant Prediluted | MC0315RTU7 | 7 ml |

### IHC Procedure

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| Positive Control: | Lymph node, tonsil, kidney |
| Concentrated Dilution: | 50-200 |
| Pretreatment: | Citrate pH6.0 or EDTA pH8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C |
| Incubation Time and Temp: | 30-60 minutes @ RT |
| Detection: | Refer to the detection system manual |

* Result should be confirmed by an established diagnostic procedure.
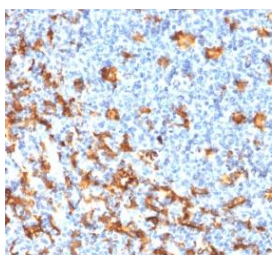


FFPE human tonsil stained with anti-AIF1/Iba1 using DAB

### References:

1. Immunohistochemical Evaluation of Aquaporin-4 and its Correlation with CD68, IBA-1, HIF-1α, GFAP, and CD15 Expressions in Fatal Traumatic Brain Injury. Neri M, et al. Int J Mol Sci. Nov 10;19(11), 2018.
2. Allograft Inflammatory Factor-1 Links T-Cell Activation, Interferon Response, and Macrophage Activation in Chronic Kawasaki Disease Arteritis. Rowley AH et al. J Pediatric Infect Dis Soc. 2017.
3. Arterial immune protein expression demonstrates the complexity of immune responses in Kawasaki disease arteritis. Cameron SA et al. Clin Exp Immunol. 2017.
4. Fine mapping of the MHC Class III region demonstrates association of AIF1 and rheumatoid arthritis. Harney SM et al. Rheumatology (Oxford). 2008.