

## 12-1063: Anti-AIF1 / Iba1 (Microglia Marker) Recombinant Mouse Monoclonal Antibody (Clone:rAIF1/1909)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	rAIF1/1909
<b>Application :</b>	IHC
<b>Reactivity :</b>	Human
<b>Gene :</b>	AIF1
<b>Gene ID :</b>	199
<b>Uniprot ID :</b>	P55008
<b>Format :</b>	Purified
<b>Alternative Name :</b>	Allograft inflammatory factor 1 (AIF1); balloon angioplasty responsive transcription (BART1); IBA1; Interferon responsive transcript 1; Ionized calcium-binding adapter molecule 1; IRT1; Microglia response factor (MRF1)
<b>Isotype :</b>	Mouse IgG1, kappa
<b>Immunogen Information :</b>	Purified recombinant human AIF1 protein (around aa 1-146) (exact sequence is proprietary)

### Description

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).

### Product Info

<b>Amount :</b>	20 µg / 100 µg
<b>Purification :</b>	Protein A/G
<b>Content :</b>	200µg/ml of recombinant MAb purified by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
<b>Storage condition :</b>	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous.

### Application Note

Immunohistochemistry (Formalin-fixed) (1-2µg/ml for 30 min at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes);

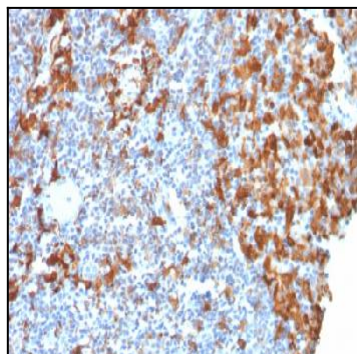


Figure 1: Formalin-fixed, paraffin-embedded Human Lymph Node stained with AIF1 / Iba1 Mouse Recombinant Monoclonal Antibody (rAIF1/1909).

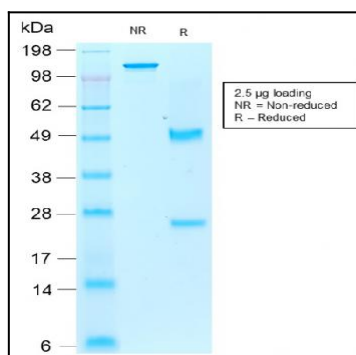


Figure 2: SDS-PAGE Analysis Purified AIF1 / Iba1 Mouse Recombinant Monoclonal Antibody (rAIF1/1909).

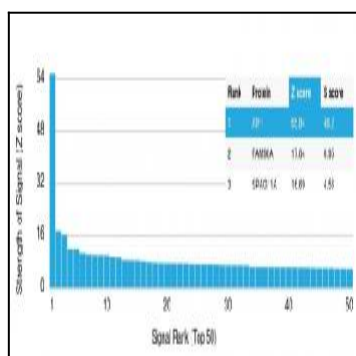


Figure 3: Analysis of Protein Array containing >19,000 full-length human proteins using AIF1 Mouse Monoclonal Antibody (rAIF/1909) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to be specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.