

# Anti-Iba1 Antibody [8G8]

## RT1316



<b>Product Type:</b>	Mouse monoclonal IgG, primary antibodies
<b>Species reactivity:</b>	Human, Mouse, Rat
<b>Applications:</b>	WB, IHC-P, FC, IP
<b>Molecular Wt:</b>	17 kDa
<b>Clone number:</b>	8G8

**Description:** Ionized calcium-binding adapter molecule 1 (Iba1), also known as allograft inflammatory factor-1 (AIF-1), is a 147 amino acid cytoplasmic, calcium-binding protein that is thought to play a role in macrophage activation and function. Iba1, containing two EF domains, is induced by cytokines and interferons. In an unstimulated state, Iba1 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 Iba1 maps to chromosome 6p21.33 and resides in the tumor necrosis factor (TNF) cluster of genes located in the region represented by the human major histocompatibility complex (MHC).

**Immunogen:** Recombinant protein.

**Positive control:** Human PBL whole cell lysate, rat brain, rat C6 glioblastoma tissue.

**Subcellular location:** Cytoplasm, cytoskeleton.

**Database links:** SwissProt: P55008 Human

### Recommended Dilutions:

<b>WB</b>	1:100-1:1,000
<b>IP</b>	1-2 µg per 100-500 µg of total protein(1 ml of cell lysate)
<b>IHC-P</b>	1:50-1:500
<b>FC</b>	1 µg per 1 x 10 <sup>6</sup> cells

**Storage Buffer:** 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

**Storage Instruction:** Store at +4°C .

**Purity:** Protein A affinity purified.

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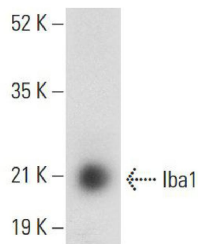
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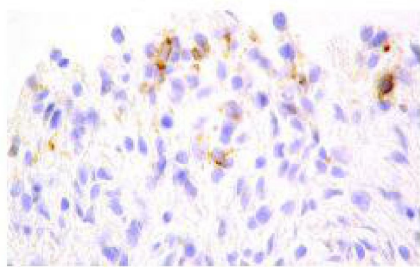
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## Images



**Fig1:** Western blot analysis of Iba1 on human PBL whole cell lysate using anti-Iba1 antibody at 1/1,000 dilution.



**Fig2:** Immunohistochemical analysis of paraffin-embedded rat C6 glioblastoma tissue using anti-Iba1 antibody. Counter stained with hematoxylin.

**Note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

## Background References

1. Arroba AI et al. Autophagy resolves early retinal inflammation in Igf1-deficient mice. *Dis Model Mech* 9:965-74 (2016).
2. James RE et al. Loss of galectin-3 decreases the number of immune cells in the subventricular zone and restores proliferation in a viral model of multiple sclerosis. *Glia* N/A:N/A (2015).

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