

Rabbit Anti-IBA1 (AIF1) [EP289]: RM0376

Intended Use: For Research Use Only

Description: Iba-1, designated as allograft inflammatory factor 1 (AIF1), is a 17 kDa cytoplasmic calcium-binding protein that is constitutively expressed in monocytes, macrophages and CD3+ lymphocytes, but can also be induced by cytokines and interferon α . Iba-1 is a key molecule that co-localizes with Rac in the membrane ruffling process, a feature of actively migrating cells. Iba-1 may promote the proliferation of vascular smooth muscle cells and T-lymphocytes, enhancing lymphocytic migration, and plays a role in vascular inflammation. In addition to leukocytes, Iba-1 expression has been described in the testis and spleen, and weakly expressed in the brain, lung and kidney. Within the brain, Iba-1 was specifically localized in microglia. Iba-1 may be an indicator of macrophage activation in the body since it is also expressed in various human immune-related tissues, including rheumatoid arthritis, inflammatory skin disorders, system sclerosis, and cardiac allograft vasculopathy. A recent study suggested that Iba-1 expression was associated with breast ductal tumors and may be helpful for the analysis of breast cancer.

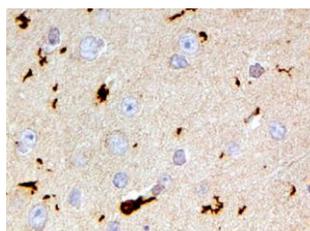
Specifications

Clone: EP289
 Source: Rabbit
 Isotype: IgG
 Reactivity: Human
 Localization: Cytoplasm
 Formulation: Antibody in PBS pH7.5, containing 0.2% BSA and <0.1% sodium azide (NaN₃)
 Storage: Store at 2°- 8°C
 Applications: IHC
 Package:

Description	Catalog No.	Size
IBA1 (AIF1) Concentrated	RM0376	1 ml

IHC Procedure

Positive Control: Brain microglia, astrocytomas
 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 brain stained with anti-IBA1 using DAB

References:

1. M1- and M2-macrophage polarization in rat liver cirrhosis induced by thioacetamide (TAA), focusing on Iba1 and galectin-3. Wijesundera KK, et al. *Exp Mol Pathol.* Jun;96(3):382-92, 2014.
2. Rare contacts between synapses and microglial processes containing high levels of Iba1 and actin--a postembedding immunogold study in the healthy rat brain. Sogn CJ, et al. *Eur J Neurosci.* Jul;38(1):2030-40, 2013.
3. Heterogenous immunohistochemical expression of microglia-specific ionized calcium binding adaptor protein (Iba1) in the mouse olfactory bulb. Okere CO, et al. *Brain Res.* Sep 15;877(1):85-90, 2000.