
Monoclonal Antibody To Human and Rat AIF-1 (IBA1) Activated Macrophages And Microglial Cells

Allograft Inflammatory Factor-1 is a Ca²⁺-binding peptide produced by activated macrophages and microglial cells. It has been suggested that AIF-1 expression is associated with chronic inflammatory processes. AIF-1, like the Ca²⁺-binding peptides MRP8 and MRP14, is expressed by activated macrophages and might participate in a variety of pathogenic processes in the mammalian brain and in chronic transplant rejection. It has been shown to be expressed early and persistently in chronically rejecting cardiac allografts but not in cardiac syngrafts and host hearts. Alternative names for AIF-1 are IBA1 for ionized calcium-binding adapter molecule 1, or Protein G1. However, apoptosis-inducing factor AIF is not related to AIF-1.

This antibody was produced serum-free, without fetal calf serum.

Product number: T-1059

Clone: 1022-5

Lot: 04PO1430

TECHNICAL AND ANALYTICAL CHARACTERISTICS:

Host species, isotype: Mouse IgG2b

Quantity: 200µg

Format: Affinity purified from cell culture supernatant, lyophilized. Reconstitute by adding 0.5ml distilled water. This stock solution contains 0.4mg/ml IgG, phosphate buffered saline pH 7.2 (PBS), 5mg/ml bovine serum albumin (BSA) as a stabilizer and 0.05% (v/v) Kathon CG as a preservative.

Stability: Original vial: 1 year at 4° - 8°C. Minimize repeated thawing and freezing of the stock solution.

Applications: Each lot of this antibody has been tested and validated for immunohistochemistry (IHC).
Approximate working dilution for IHC:
Frozen sections: does not react on routinely processed frozen sections.
Paraffin sections: 10 - 20µg/ml (1:20 - 1:40); microwave pretreatment for antigen retrieval recommended.
Optimal dilutions should be determined by the end user.
Suggested positive control: Human spleen.
Please see www.bma.ch for protocols and general information.

Immunogen: Purified human recombinant AIF-1.

Antigen, epitope: The antigen is AIF-1, epitope not further characterized.

Specificity:**Human:** activated macrophages.**Other:** rat and porcine activated macrophages.

Selected references

Schluesener, H.J. et al.: Allograft-inflammatory factor-1 in rat experimental autoimmune encephalomyelitis, neuritis, and uveitis: expression by activated macrophages and microglial cells. *Glia* **24**, 244-251 (1998)

Schluesener, H.J. et al.: Effects of autoantigen and dexamethasone treatment on expression of endothelial-monocyte activating polypeptide II and allograft-inflammatory factor-1 by activated macrophages and microglial cells in lesions of experimental autoimmune encephalomyelitis, neuritis and uveitis. *Acta Neuropathol.* **97**, 119-126 (1999).

For *in vitro* research only. This product contains Kathon as a preservative.