



BMA BIOMEDICALS

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

Allograft Inflammatory Factor-1 is a Ca^{2+} -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 Ca^{2+} -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.

TECHNICAL AND ANALYTICAL CHARACTERISTICS

Product Number:	T-1059 (Lot 04PO1430)
Clone:	1022-5
Host species, isotype:	Mouse IgG2b, kappa light chain
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 from date of purchase. Stock solution and aliquots thereof: 1 year at -20°C. Avoid freeze-thaw cycles.
Applications:	Tested in 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); pretreatment in microwave with citrate buffer for antigen retrieval is 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

Protein database: human-P55008, rat-P55009, pig-P81076
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™ CG as a preservative.