BACKGROUND

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).

CHROMOSOMAL LOCATION

Genetic locus: AIF1 (human) mapping to 6p21.33; Aif1 (mouse) mapping to 17B1.

SOURCE

Iba1 (1022-5) is a mouse monoclonal antibody raised against recombinant human allograft inflammatory factor-1.

PRODUCT

Each vial contains 200 µg IgG2b kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Iba1 (1022-5) is available conjugated to agarose (sc-32725 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-32725 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; and to either phycoerythrin (sc-32725 PE), fluorescein (sc-32725 FITC), Alexa Fluor® 488 (sc-32725 AF488) or Alexa Fluor® 647 (sc-32725 AF647), 200 µg/ml, for IF, IHC(P) and FCM.

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APPLICATIONS

Iba1 (1022-5) is recommended for detection of Iba1 (also designated AIF-1) of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and flow cytometry (1 µg per 1 x 10⁶ cells).

Suitable for use as control antibody for Iba1 siRNA (h): sc-43857, Iba1 siRNA (m): sc-62484, Iba1 shRNA Plasmid (h): sc-43857-SH, Iba1 shRNA Plasmid (m): sc-62484-SH, Iba1 shRNA (h) Lentiviral Particles: sc-43857-V and Iba1 shRNA (m) Lentiviral Particles: sc-62484-V.

Molecular Weight of Iba1: 17 kDa.

Positive Controls: rat brain extract: sc-2392 or human PBL whole cell lysate.

STORAGE

Store at 4°C. **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

DATA

SELECT PRODUCT CITATIONS


PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.