

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human AIF-1/Iba1 in direct ELISAs.
Source	Monoclonal Mouse IgG _{2A} Clone # 603102
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human AIF-1/Iba1 Met1-Pro147 Accession # P55008
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.	

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Immunohistochemistry Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Allograft-inflammatory factor 1 (AIF-1), also known as daintain and Iba1, is a 17 kDa cytoplasmic protein that contains two calcium-binding EF hand motifs (aa 45-80 and aa 81-115). AIF-1 is expressed in activated macrophages and is important for the proinflammatory response to ischemia, tissue injury, and atherosclerosis. It is also expressed in vascular smooth muscle and endothelial cells in these areas where it promotes vascular remodeling and new vessel formation. AIF-1 is upregulated in allografted tissue during transplant rejection. It also promotes the proliferation of breast cancer cells and in vivo tumorigenesis. The 147 amino acid (aa) isoform 3 of human AIF-1 shares 89% aa sequence identity with mouse and rat AIF-1. Isoform 1 of human AIF-1 lacks the N-terminal 54 aa of isoform 3. Isoform 2 lacks aa 1-54 as well as aa 121-147 but also has a 66 aa insertion at position 65.

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