

IBA1 Polyclonal Antibody

Catalog number: 10904-1-AP

Size: 47 µg/150 µl

Source: Rabbit

Isotype: IgG

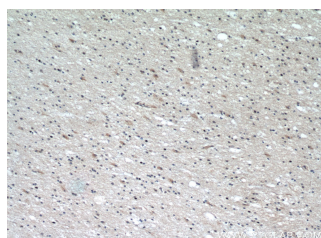
Synonyms:

AIF1; AIF 1, AIF1, G1, IBA1, IRT

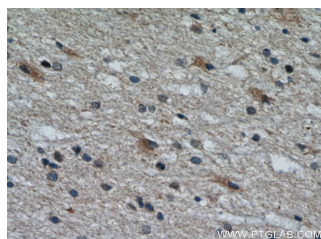
1, Protein G1



mouse spleen tissue were subjected to SDS PAGE followed by western blot with 10904-1-AP (IBA1 antibody) at dilution of 1:1000



Immunohistochemical of paraffin-embedded human brain using 10904-1-AP (IBA1 antibody) at dilution of 1:50 (under 10x lens)



Immunohistochemical of paraffin-embedded human brain using 10904-1-AP (IBA1 antibody) at dilution of 1:50 (under 40x lens)

Background

AIF1, also named as G1, IBA1 or daintain/AIF-1, is a 143 amino acid cytoplasmic, inflammation response scaffold protein. It is constitutively expressed in monocytes and macrophages and is known to be involved in macrophage activation. It is a marker of activated macrophage. Despite a lack of detailed knowledge on the in vivo physiological functions of AIF-1, there is growing evidence that shows its aberrant expression contributes to the pathogenesis of many autoimmune diseases, including rheumatoid arthritis. (20944424). AIF1 is an actin-binding protein that enhances membrane ruffling and RAC activation. It enhances lymphocyte migration and the actin-bundling activity of LCP1. AIF1 plays a role in RAC signaling and in phagocytosis and a role in vascular inflammation. AIF1 promotes the proliferation of vascular smooth muscle cells and of T-lymphocytes. It is also as a microglial cell marker.

Applications

Tested applications:	ELISA, WB, IP, IHC, IF
Cited applications:	IF, IHC, WB
Species specificity:	Human, Mouse, Rat; other species not tested.
Cited species:	Human, mouse, rat
Calculated IBA1 MW:	17 kDa
Observed IBA1 MW:	17 kDa
Positive WB detected in	Mouse spleen tissue, rat spleen tissue
Positive IP detected in	U-937 cells
Positive IHC detected in	Human brain tissue, human lymphoma tissue, human tonsillitis tissue
Positive IF detected in	C6 cells, HepG2 cells
Recommended dilution:	WB: 1:500-1:5000 IP: 1:200-1:2000 IHC: 1:20-1:200 IF: 1:50-1:500

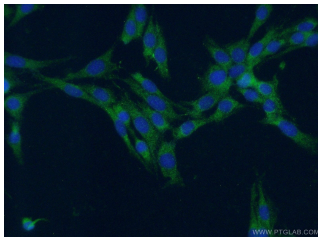
Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

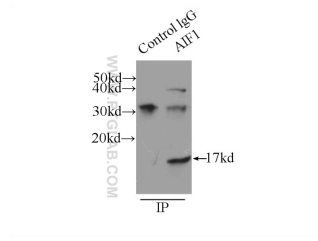
Immunogen:	Ag1363
GenBank accession number:	BC009474
Gene ID (NCBI):	199
Full name:	Allograft inflammatory factor 1

Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.1% sodium azide and 50% glycerol pH 7.3. Store at -20°C.



Immunofluorescent analysis of (-20% Ethanol) fixed C6 cells using 10904-1-AP(IBA1 Antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)



IP Result of anti-IBA1 (IP:10904-1-AP, 3ug; Detection:10904-1-AP 1:500) with U-937 cells lysate 3000ug.