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**Research Use Only. Not for
diagnostic or therapeutic use.**

EB07174 - Goat Anti-AIF1 / IBA1 (isoform 3) Antibody

Size: 100µg specific antibody in 200µl



Target Protein

Principal Names: AIF1, IBA1, allograft inflammatory factor 1, DASS-82G15.2, AIF-1, IRT-1, Em:AF129756.17, interferon gamma responsive transcript, ionized calcium-binding adapter molecule

Official Symbol: AIF1

Accession Number(s): NP_001614.3

Human GeneID(s): [199](#)

Non-Human GeneID(s): 11629 (mouse)

Important Comments: This antibody is expected to recognise isoform 3 (NP_001614.3) only.

Immunogen

Peptide with sequence C-NKQFLDDPKYSSDED, from the internal region of the protein sequence according to NP_001614.3.

Please note the [peptide](#) is available for sale.

Purification and Storage

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.

Aliquot and store at -20°C. Minimize freezing and thawing.

Applications Tested

Peptide ELISA: antibody detection limit dilution 1:128000.

IHC: Paraffin embedded Human Spleen and Brain (Cortex). Recommended concentration: 5-7µg/ml.

Immunofluorescence: Strong expression of the protein seen in the nucleus and cytoplasm of CaCo-2 and U937 cells. Recommended concentration: 10µg/ml.

Flow Cytometry: Flow cytometric analysis of U937 cells. Recommended concentration: 10ug/ml.

Species Reactivity

Tested: Human

Expected from sequence similarity: Human, Mouse, Dog

Specific Reference

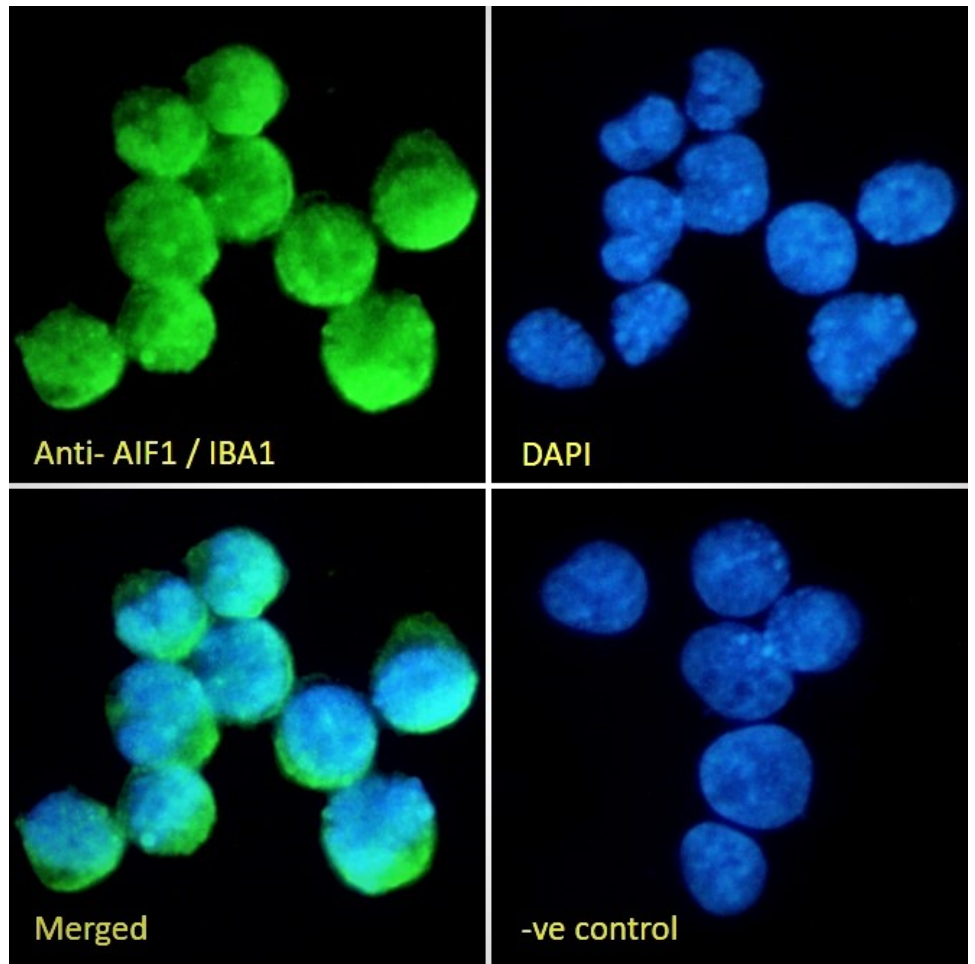
This antibody (previous batch) has been successfully used in IHC on Rat:

Joshua P. Thaler, Chun-Xia Yi, Ellen A. Schur, Stephan J. Guyenet, Bang H. Hwang, Marcelo O. Dietrich, Xiaolin Zhao, David A. Sarruf, Vitaly Izgur, Kenneth R. Maravilla, Hong T. Nguyen, Jonathan D. Fischer, Miles E. Matsen, Brent E. Wisse, Gregory J. Morton, Tamas L. Horvath, Denis G. Baskin, Matthias H. Tschöp, and Michael W. Schwartz

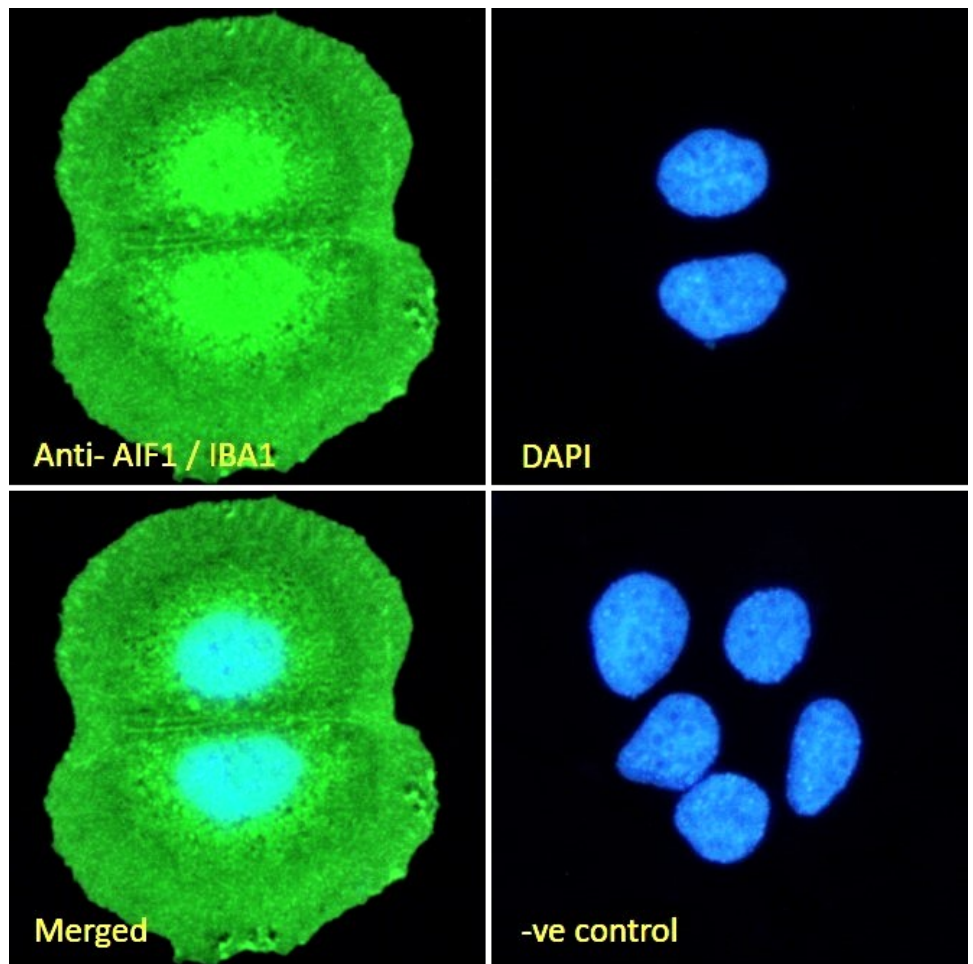
Obesity is associated with hypothalamic injury in rodents and humans.

J Clin Invest. 2012 Jan 3; 122(1): 153-162.

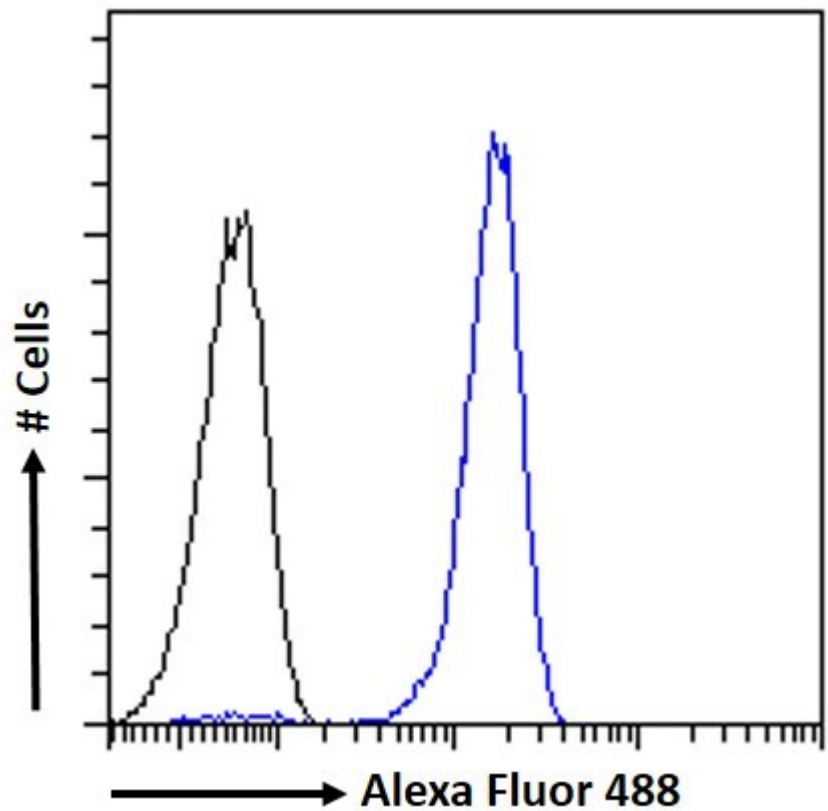
PMID: 22201683



EB07174 Immunofluorescence analysis of paraformaldehyde fixed U937 cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing nuclear and cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



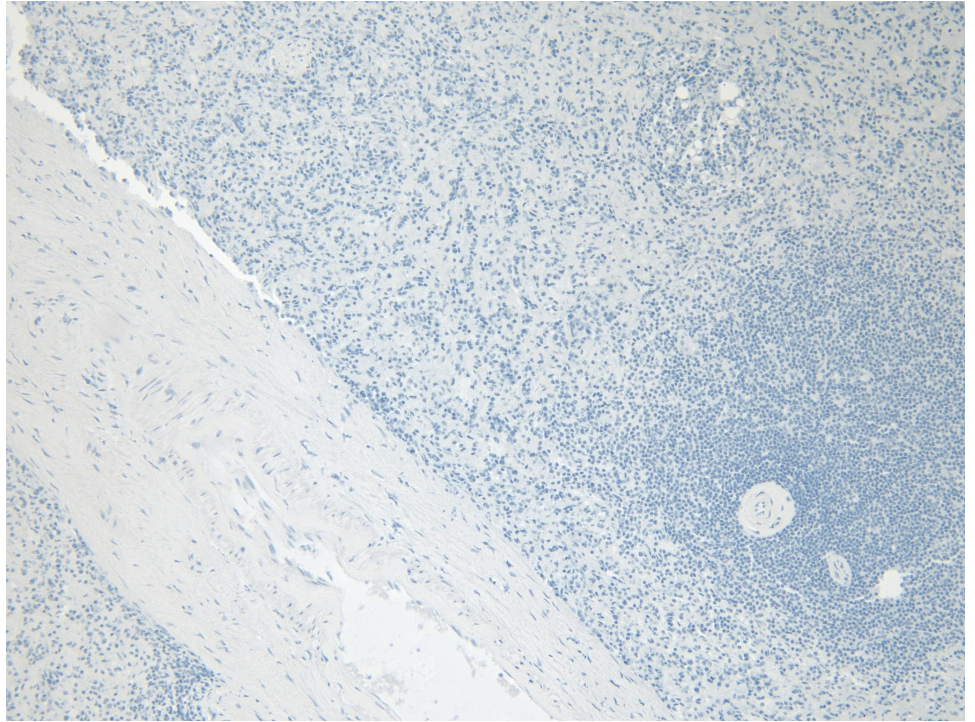
EB07174 Immunofluorescence analysis of paraformaldehyde fixed Caco-2 cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing nuclear and cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



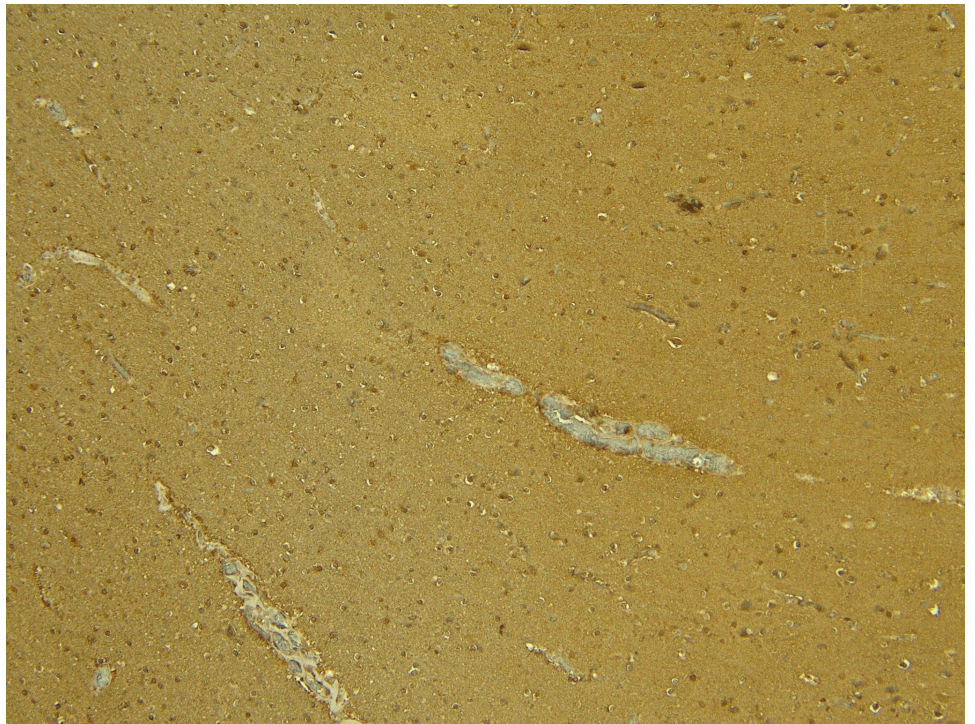
EB07174 Flow cytometric analysis of paraformaldehyde fixed U937 cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (1ug/ml). IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.



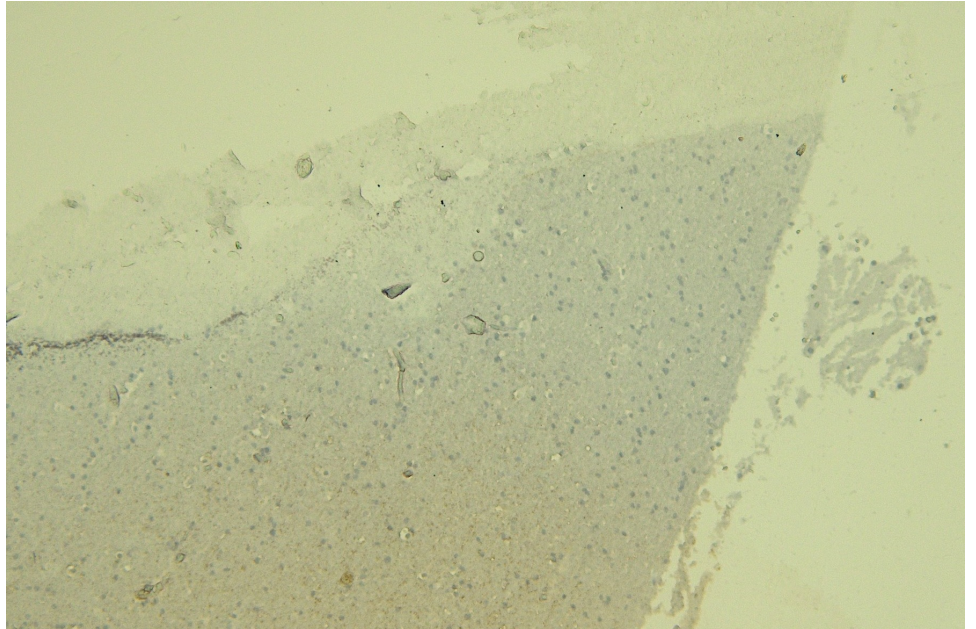
EB07174 (7 μ g/ml) staining of paraffin embedded Human Spleen. Heat induced antigen retrieval with citrate buffer Ph 6, HRP-staining.



EB07174 Negative Control showing staining of paraffin embedded Human Spleen, with no primary antibody.



EB07174 (5µg/ml) staining of paraffin embedded Human Cortex. Heat induced antigen retrieval with citrate buffer Ph 6, HRP-staining.



EB07174 Negative Control showing staining of paraffin embedded Human Cortex, with no primary antibody.