

Chicken IBA1 Polyclonal Antibody | anti-IBA1 antibody

IBA1

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA76710	Chicken	Human, Mouse, Rat	Immunofluorescence, Immunohistochemistry, Western Blot, Immunocytochemistry

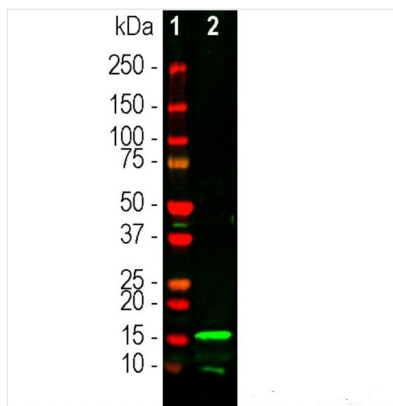
PRODUCT SYNONYMS

IBA1; Polyclonal Antibody; anti-IBA1 antibody

PRODUCT SPECIFICATIONS

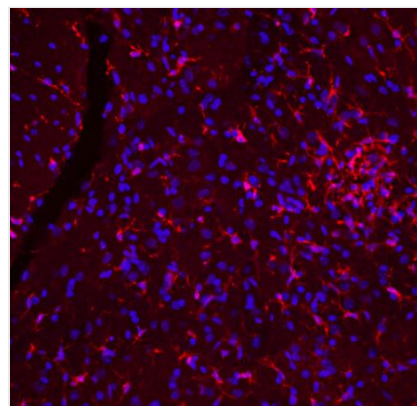
Host	Chicken
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Chicken IgY
Form/Format	Liquid. Supplied as an aliquot of IgY preparation plus 5mM NaN3
Applicable Applications for anti-IBA1 antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot), ICC (Immunocytochemistry)
Immunogen	Peptide identical to part of the C-terminal of human IBA1 coupled to KLH
Preparation and Storage	The antibody can be stored at 2 degree - 8 degree C for 12 months without detectable loss of activity. Avoid repeated freeze-thaw cycles.

IMAGES



WB (Western Blot)

Western blot analysis of chicken pAb to IBA1, AAA76710, dilution 1:1,000 in green: [1] protein standard (red) and [2] rat spleen crude homogenate. The band at about 15kDa mark corresponds to IBA1 protein. IBA1 is a relatively minor protein of brain and is much more abundant in spleen, so the 15kDa band is less obvious in CNS lysates.



Application Data

Rat spinal cord section, stained with AAA76710, dilution 1:1,000, in red. Microglia are very small cells with fine processes spreading in three dimensions and so are best visualized in a confocal Z stack. Nuclear DNA is shown with DAPI stain in blue.

ADDITIONAL INFORMATION

Related Product Information for anti-IBA1 antibody	IBA1 is an acronym for "ionized Calcium binding adapter molecule 1", and the protein is also known as AIF1 for "allograft inflammatory factor 1". AIF1 was originally identified, cloned and sequenced as a protein heavily upregulated in an animal model of graft rejection. Suitable IBA1 antibodies are widely used to identify microglial cells in sections and tissues. In tissue samples from which they have not been washed out by perfusion, lymphocytes within blood vessels are also IBA1 positive. Microglia are the immunocompetent cells of the CNS and are extremely important in responses to injury and disease. Microglial are small but very active cells which constantly send processes probing their neighborhood and which alter morphology and are induced to divide following a variety of CNS compromises. Many important and highly cited papers have made use of IBA1 antibodies as markers of microglia. This antibody was made against the C-terminal peptide of human IBA1 coupled to keyhole limpet hemocyanin. It works well on western blots, on cells cultures and sectioned material.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	1703217
NCBI GeneID	199
UniProt Accession #	P55008; O43904; Q9UIV4; Q9UKS9; A8K406
Molecular Weight	147
NCBI Official Full Name	Allograft inflammatory factor 1
NCBI Official Synonym Full Names	allograft inflammatory factor 1
NCBI Official Symbol	AIF1
NCBI Official Synonym Symbols	IBA1; IRT1; AIF-1; IRT-1
NCBI Protein Information	allograft inflammatory factor 1; protein G1; interferon gamma responsive transcript; ionized calcium-binding adapter molecule 1; allograft inflammatory factor-1 splice variant Hara-1
UniProt Protein Name	Allograft inflammatory factor 1
UniProt Gene Name	AIF1
UniProt Synonym Gene Names	G1; IBA1; AIF-1
UniProt Entry Name	AIF1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/iba1-antibody-immunofluorescence-immunohistochemistry-western-blot-immunocytochemistry-elisa/76710>