IBA1
#Cat: NB-26-01982　Size: 100µl

Host:	Chicken
Product Type:	Chicken Polyclonal
Species Reactivity:	Human, Rat, Mouse
Immunogen Sequence:	Peptide identical to part of the C-terminal of human IBA1 coupled to KLH
Format:	Supplied as an aliquot of IgY preparation plus 5mM NaN3
Applications:	Immunofluorescence: 1:2,000-5,000
	Immunohistochemistry: 1:2,000-5,000
	Western Blot: 1:1,000-5,000
	Dilutions listed as a recommendation. Optimal dilution should be determined by investigator.
Storage:	The antibody can be stored at 2° - 8° C for 12 months without detectable loss of activity. Avoid repeated freeze-thaw cycles.

Application Notes

Description/Data

IBA1 is an acronyn 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.
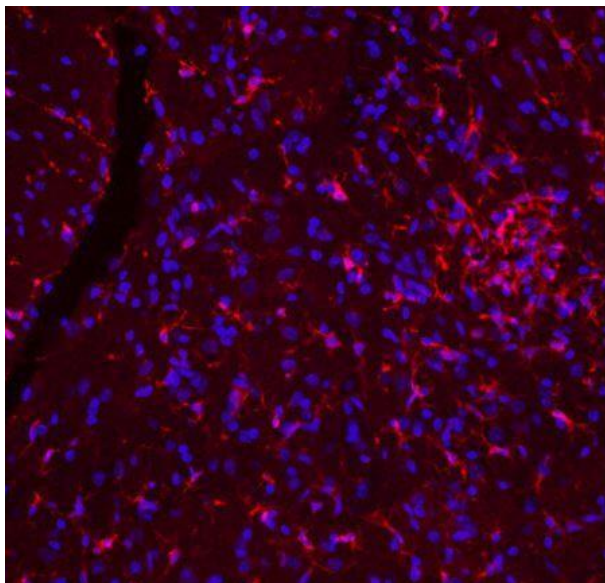
Image: Rat spinal cord section, stained with NB-26-01982, dilution 1:1,000, in red. Nuclear DNA is shown with DAPI stain in blue.

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