

Iba1/AIF-1 (E5N4J) Mouse mAb



Orders: 877-616-CELL (2355)

orders@cellsignal.com

Support: 877-678-TECH (8324)

info@cellsignal.com Web:

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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Applications:	Reactivity:	Sensitivity:	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
IHC-Bond, IHC-P	H Mk	Endogenous	Mouse IgG1 kappa	#P55008	199
Product Usage Information		Application IHC Leica Bond Immunohistochemistry	(Paraffin)		Dilution 1:100 - 1:400 1:100 - 1:400
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glyce 0.02% sodium azide. <i>Store at –20°C. Do not aliquot the antibody.</i>				5A, 50% glycerol and less than
		For a carrier free (BSA and azide free) version of this product see product #26423.			
Specificity/Sensitivity		Iba1/AIF-1 (E5N4J) Mouse mAb recognizes endogenous levels of total Iba1/AIF-1 protein.			
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu32 of human Iba1/AIF-1 protein.			
Background		Ionized calcium-binding adaptor molecule 1 (Iba1), also known as allograft inflammatory factor 1 (AIF-1), is an evolutionarily conserved cytoplasmic calcium binding protein containing a central pair of EF-hand calcium binding motifs (1,2). Iba1/AIF-1 was originally cloned from activated macrophages in human atherosclerotic allogenic heart grafts undergoing chronic transplant rejection as well as from rat monocytes (3,4). Its function is not very well understood, but Iba1/AIF-1 expression is upregulated in response to interferon-gamma and, therefore, could modulate macrophage-dependent immune response (3). As an F-actin-binding protein, Iba1/AIF-1 may function to remodel the actin cytoskeleton and contribute to morphological changes that correlate with various microglial/macrophage states (5). Iba1/AIF-1 is also uniquely expressed in cells of monocytic lineage and is, therefore, widely used as a marker for microglia/macrophages in the brain and other tissue (6).			
Background Refe	erences	1. Schulze, J.O. et al. (2008) <i>FEBS J</i> 275, 4627-40. 2. Deininger, M.H. et al. (2002) <i>FEBS Lett</i> 514, 115-21. 3. Utans, U. et al. (1995) <i>J Clin Invest</i> 95, 2954-62. 4. Imai, Y. et al. (1996) <i>Biochem Biophys Res Commun</i> 224, 855-62. 5. Kanazawa, H. et al. (2002) <i>J Biol Chem</i> 277, 20026-32. 6. Ito, D. et al. (1998) <i>Brain Res Mol Brain Res</i> 57, 1-9.			

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Applications Key

IHC-Bond: IHC Leica Bond IHC-P: Immunohistochemistry (Paraffin)

Cross-Reactivity Key

H: Human Mk: Monkey

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