

CERTIFICATE OF ANALYSIS – TECHNICAL DATA SHEET

Product name	AIF-1, Human, clone 1022-5		
Catalog number	HM2184-100UG		
Lot number	-	Expiry date	-
Volume	1 ml	Amount	100 µg
Formulation	0.2 µm filtered in PBS+0.1%BSA+0.02%NaN3	Concentration	100 µg/ml
Host Species	Mouse IgG2b	Conjugate	None
Endotoxin	N.A.	Purification	Protein G
Storage	4°C		

Application notes

	IHC-F	IHC-P	IF	FC	FS	IA	IP	W
Reference #								
Yes		•				•		•
No								
N.D.	•		•	•	•		•	

N.D.= Not Determined; IHC = Immuno histochemistry; F = Frozen sections; P = Paraffin sections; IF = Immuno Fluorescence; FC = Flow Cytometry; FS = Functional Studies; IA = Immuno Assays; IP = Immuno Precipitation; W = Western blot

Dilutions to be used depend on detection system applied. It is recommended that users test the reagent and determine their own optimal dilutions. The typical starting working dilution is 1:50.

- IA: Monoclonal antibody 1022-5 can be used as detector in immuno assays.

General Information

Description Monoclonal antibody 1022-5 reacts with Allograft-inflammatory factor-1 (AIF-1) polypeptide, also known as Ionized calcium-binding adapter molecule 1, Iba-1. AIF-1 is a 17 kDa IFN-gamma inducible Ca²⁺-binding EF-hand protein, associated with chronic inflammatory processes. AIF-1 is constitutively expressed in lymphatic tissue and is up-regulated in monocytes/macrophages under various pathological conditions such as chronic rejection of allografts and in autoimmune lesions. In the brain, a subset of microglial cells constitutively express AIF-1. Increased numbers of AIF-1 immunoreactive macrophage/microglial cells were observed in focal brain infarctions, traumatic brain injury, gliomas, uveitis and in inflammatory lesions of a rat model of autoimmune disease, autoimmune encephalomyelitis and neuritis. Several Ca²⁺-binding peptides have been associated with monocyte activation, in particular members of the S-100 supergene-family. AIF-1 is a Ca²⁺-binding peptide which is not a member of the S-100 gene cluster but is located within the HLA class III genomic region. The monoclonal antibody 1022-5 is cross reactive with rat Allograft-inflammatory factor-1 (rat AIF-1). Human and rat amino acids sequences are 98% homologous.

Aliases Ionized calcium-binding adapter molecule 1, Iba-1, Allograft-inflammatory factor.

Cross reactivity Rat: Yes.

- References**
- Schluesener, H et al; Allograft-inflammatory factor-1 in rat experimental autoimmune encephalomyelitis, neuritis, and uveitis: expression by activated macrophages and microglial cells. *Glia* 1998, 24: 244
 - Beschorner, R et al; Differential regulation of the monocytic calcium-binding peptides macrophage-inhibiting factor related protein-8 (MRP8/S100A8) and allograft inflammatory factor-1 (AIF-1) following human traumatic brain injury. *Acta neuropathol* 2000, 100: 627
 - Deininger, M et al; The allograft inflammatory factor-1 in Creutzfeldt-Jakob disease brains. *Neuropathol Appl Neurobiol* 2003, 29: 389

Storage&stability Product should be stored at 4°C. Under recommended storage conditions, product is stable for at least one year.

Precautions

For research use only. Not for use in or on humans or animals or for diagnostics. It is the responsibility of the user to comply with all local/state and federal rules in the use of this product. Hycult Biotech is not responsible for any patent infringements that might result from the use or derivation of this product.

We hereby certify that the above-stated information is correct and that this product has been successfully tested by the Quality Control Department. This product was released for sale according to the existing specifications. This document has been produced electronically and is valid without a signature.

Approved by Manager of QC
Brenda Teunissen

Date
03/12/2019

Do you have any questions or comments regarding this product? Please contact us via support@hycultbiotech.com.