

CERTIFICATE OF ANALYSIS – TECHNICAL DATA SHEET

Product name	L-Afadin, Rat, clone 3	Expiry date	-
Catalog number	HM3013	Amount	100 µg
Lot number	-	Concentration	100 µg/ml
Volume	1 ml	Conjugate	None
Formulation	0.2 µm filtered in PBS+0.1%BSA+0.02%NaN3	Purification	Protein G
Host Species	Mouse IgG1		
Endotoxin	N.A.		
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.

- IHC-F: Fixation with PFA or acetone/methanol is recommended.

General Information

Description Afadin is an actin filament-binding protein that is involved in cell-cell adherens junctions (AJs) which directly interacts with the alpha herpes virus receptor, a member of the immunoglobulin supergene family. Afadin is colocalized with nectin at cadherin-based cell-cell adherence junctions in various tissues and cell lines. L-Afadin has been isolated as an F-actin-binding protein from rat brain. L-afadin is ubiquitously expressed and specifically localized at zonula adherens (ZA) in epithelial cells and at cell-cell adherens junctions (AJs) in non-epithelial cells. L-afadin has a splice variant, named small intestine absorptive afadin (s-afadin) which is abundantly expressed in neural tissue. Monoclonal antibody 3 has been raised against peptide 1814-1829 aa of rat I-afadin. Monoclonal antibody 3 cross reacts with human, mouse and dog I-afadin.

Cross reactivity Human: Yes; Dog: Yes; Mouse: Yes.

- References**
1. Sakisaka, T et al; Different behavior of I-afadin and neurabin-II during the formation and destruction of cell-cell adherens junction. *Oncogene* 1999, *18*: 1609
 2. Takahashi, K et al; Nectin/PRR: An immunoglobulin-like cell adhesion molecule recruited to cadherin-based adherens junctions through interaction with afadin, a PDZ domain-containing protein. *J Cell Biol* 1999, *145*: 539

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
Robbert Zwinkels

Date
16/03/2018

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