Mouse Arginylation Monoclonal Antibody

N-terminal Arginylation Antibody, Clone 4A9

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA103914	**Mouse**	**Species Independent**	**Flow Cytometry, Functional Assay, Western Blot**

PRODUCT SYNONYMS

Arginylation; Monoclonal Antibody; N-terminal Arginylation Antibody; Clone 4A9; Mouse Anti-N-terminal Arginylation Monoclonal IgG1; N-terminal Arginine Antibody; N-terminal Arginylated Antibody; N terminal Arginine Antibody; N terminal Arginylation Antibody; N terminal Arginylated Antibody; Amino-terminal Arginine Antibody; Amino-terminal Arginylation Antibody; Amino-terminal Arginylated Antibody; Amino terminal Arginine Antibody; Amino terminal Arginylation Antibody; Amino terminal Arginylated Antibody; anti-Arginylation antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Species Independent
Clonality	Monoclonal
Isotype	IgG1
Clone Number	4A9
Specificity	Specific for N-terminal arginine next to glutamic acid. Does not detect N-terminal arginine next to aspartic acid or internal arginine residues.
Purity/Purification	Protein G Purified
Concentration	1 mg/ml (varies by lot)
Applicable Applications for anti-Arginylation antibody	FCM/FACS (Flow Cytometry), WB (Western Blot)
Target	N-terminal Arginylation
Immunogen	Synthetic N-terminal arginylated peptide conjugated to KLH
Cellular Localization	Endoplasmic Reticulum
Conjugate	Unconjugated
Storage Buffer	PBS pH 7.4, 50% glycerol, 0.09% Sodium Azide
Preparation and Storage	Store at -20 degree C.

IMAGES

FCM/FACS (Flow Cytometry)
Flow Cytometry analysis using Mouse Anti-N-terminal Arginylation Monoclonal Antibody, Clone 4A9 . Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 90% Methanol. Primary Antibody: Mouse Anti-N-terminal Arginylation Monoclonal Antibody at 1:50 for 30 min on ice. Secondary Antibody: Goat Anti-Mouse: PE at 1:100 for 20 min at RT. Isotype Control: Non Specific IgG. Heat stressed cells were subject to heat shock at 42 degree C for 2 hours.

WB (Western Blot)
Western Blot analysis of N-terminal Arginine-BSA showing detection of 67 kDa N-terminal Arginylation protein using Mouse Anti-N-terminal Arginylation Monoclonal Antibody, Clone 4A9 . Lane 1: Molecular Weight Ladder (MW). Lane 2: BSA. Lane 3: RDHKH-BSA. Lane 4: REHKH-BSA. Lane 5: HKH-BSA. Lane 6: HKERD-BSA. Lane 7: HKRRE-BSA. Load: 0.5 ug. Block: 5% Skim Milk in 1X TBST. Primary Antibody: Mouse Anti-N-terminal Arginylation Monoclonal Antibody at 1:1000 for 60 min at RT. Secondary Antibody: Goat Anti-Mouse IgG: HRP at 1:2000 for 60 min at RT. Color Development: ECL solution (Super Signal West Pico) for 5 min in RT. Predicted/Observed Size: 67 kDa. Other Band(s): 250kDa, 150kDa, 75kDa REHKH-BSA.

ADDITIONAL INFORMATION

Related Product Information for anti-Arginylation antibody	Protein arginylation is the post-translational addition of arginine to proteins by arginyltransferase ATE1. Arginylation of proteins has been found to play an essential role in physiological pathways during embryogenesis and adulthood (1). Arginylation has also been shown to regulate cell stress responses, including ER stress, cytosolic misfolded proteins, and heat stress (2).
Product Categories/Family for anti-Arginylation antibody	Antibodies; Cell Signaling; Post-translational Modifications; Arginylation
References	1. Saha S. and Kashina A. (2011) Dev Biol. 385(1): 1-8. 2. Deka K., et al. (2016) Cell Death Discov. 2: 16074.

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/monoclonal/arginylation-antibody-clone-4a9-flow-cytometry-western-blot-elisa/103914