

N-terminal Arginylation Antibody

N-terminal Arginylation Antibody, Clone 4A9 Catalog # ASM10171

Specification

N-terminal Arginylation Antibody - Product Information

Application **WB** Host Mouse Isotype IqG1

Clonality **Monoclonal**

Format RPE

Description

Mouse Anti-N-terminal Arginylation

Monoclonal IgG1

Target/Specificity

Specific for N-terminal arginine next to glutamic acid. Does not detect N-terminal arginine next to aspartic acid or internal arginine residues.

Other Names

N-terminal Arginine Antibody, N-terminal Arginylation 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

Immunogen

Synthetic N-terminal arginylated peptide conjugated to KLH

Purification

Protein G Purified

Storage -20ºC

Storage Buffer

PBS pH 7.4, 50% glycerol, 0.9% Sodium

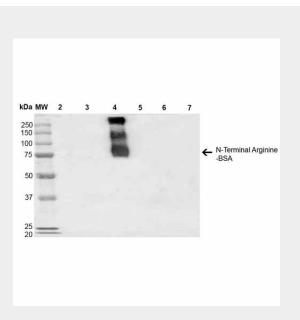
Azide

Blue Ice or 4ºC Shipping

Temperature

Certificate of Analysis

A 1:1000 dilution of SMC-263 was sufficient for detection of N-terminal Arginylation in



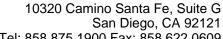
Western Blot analysis of N-terminal Arginine-BSA showing detection of 67 kDa N-terminal Arginylation protein using Mouse Anti-N-terminal Arginylation Monoclonal Antibody, Clone 4A9 (ASM10171). Lane 1: Molecular Weight Ladder (MW). Lane 2: BSA. Lane 3: RDHKH-BSA. Lane 4: REHKH-BSA. Lane 5: HKH-BSA, Lane 6: HKERD-BSA, Lane 7: HKRRE-BSA. Load: 0.5 µg. Block: 5% Skim Milk in 1X TBST. Primary Antibody: Mouse Anti-N-terminal Arginylation Monoclonal Antibody (ASM10171) 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.

N-terminal Arginylation Antibody -**Background**

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



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0.5 ug of N-terminal Arginine peptide conjugated to BSA by ECL immunoblot analysis using goat anti-mouse IgG:HRP as the secondary antibody.

Cellular Localization Endoplasmic Reticulum

N-terminal Arginylation Antibody -**Protocols**

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- <u>Immunofluorescence</u>
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

embryogenesis and adulthood (1). Arginylation has also been shown to regulate cell stress responses, including ER stress, cytosolic misfolded proteins, and heat stress (2).

N-terminal Arginylation Antibody -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.