

N-terminal Arginylation Antibody
N-terminal Arginylation Antibody, Clone 4D12
Catalog # ASM10172**Specification**

N-terminal Arginylation Antibody - Product Information

Application	WB
Host	Mouse
Isotype	IgG1
Clonality	Monoclonal

Description

Mouse Anti-N-terminal Arginylation Monoclonal IgG1

Target/Specificity

Specific for N-terminal arginine, next to both glutamic acid and aspartic acid. Does not detect internal arginine.

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 **-20°C**

Storage Buffer

PBS pH 7.4, 50% glycerol, 0.9% Sodium Azide

Shipping Temperature

Blue Ice or 4°C

Certificate of Analysis

A 1:1000 dilution of SMC-264 was sufficient for detection of N-terminal Arginylation in 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

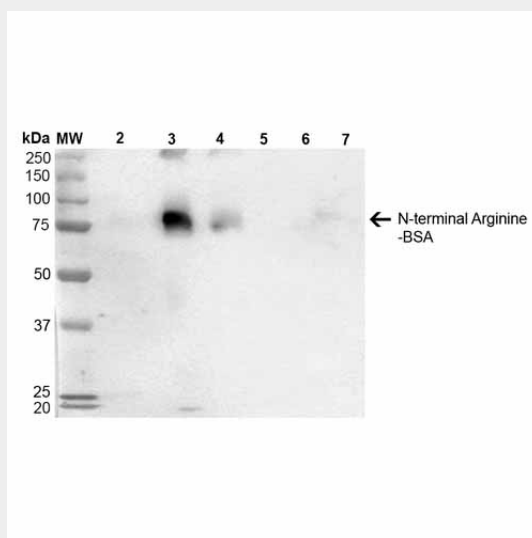
N-terminal Arginylation Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)

- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

N-terminal Arginylation Antibody - Images



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 4D12 (ASM10172). 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 μ g. Block: 5% Skim Milk in 1X TBST. Primary Antibody: Mouse Anti-N-terminal Arginylation Monoclonal Antibody (ASM10172) at 1:1000 for 60 min at RT. Secondary Antibody: Goat Anti-Mouse IgG: HRP at 1:2000 for 2 hour at RT. Color Development: ECL solution (Super Signal West Pico) for 5 min in RT. Predicted/Observed Size: 67 kDa. Other Band(s): 250kDa, 75kDa, 20kDa RDHKH-BSA; 250kDa, 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 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.