

Citrulline Antibody
Citrulline Antibody, Clone 2D3.1
Catalog # ASM10328**Specification**

Citrulline Antibody - Product Information

Application	WB, ICC, E
Host	Mouse
Isotype	IgG1
Clonality	Monoclonal
Description	
Mouse Anti-Citrullinated protein Monoclonal IgG1	

Target/Specificity

Specific for citrulline residues on modified proteins. Tested using citrulline conjugated Bovine Serum Albumin (BSA).

Other Names

L-Citrulline Antibody, 2-Amino-5-(carbamoylamino)pentanoic acid, Citrulline Antibody, Citrulline Antibody, Citrulline-modified protein Antibody, ACPA, Anti-citrullinated protein antibodies, Anti-citrullinated protein Antibody, Modified Citrulline Antibody, Citrulline-containing protein Antibody, Citrullinated protein Antibody

Trademark	MOLECULAR SIGNATURE®
Immunogen	
Synthetic L-Citrulline conjugated to Keyhole Limpet Hemocyanin (KLH).	

Purification

Protein G Purified

Storage	-20°C
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Storage Buffer

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

Shipping Temperature	Blue Ice or 4°C
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Certificate of Analysis

A 1:1000 dilution of SMC-500 was sufficient for detection of Citrulline in 2 µg of Citrulline conjugated to BSA by ECL immunoblot analysis using Goat Anti-Mouse IgG:HRP as the secondary Antibody.

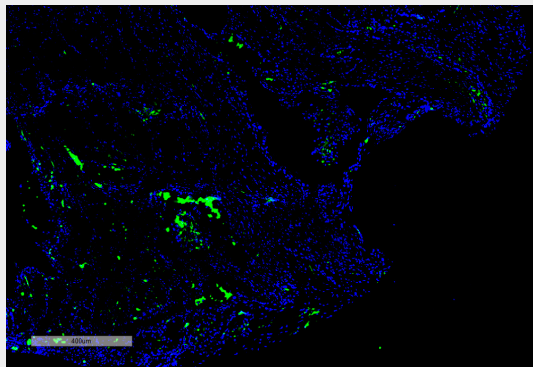
Citrulline Antibody - Protocols

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

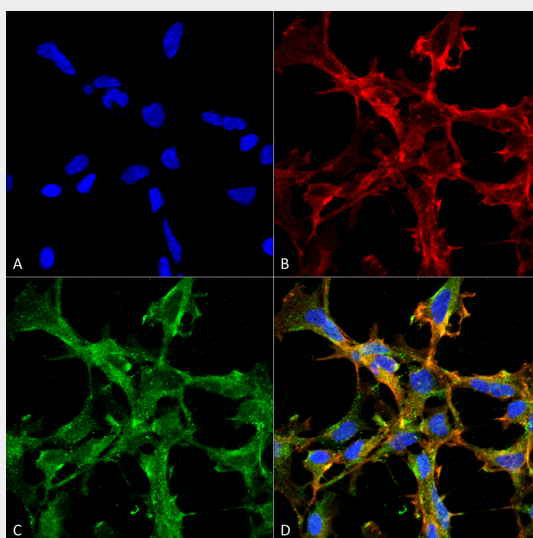
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)

- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

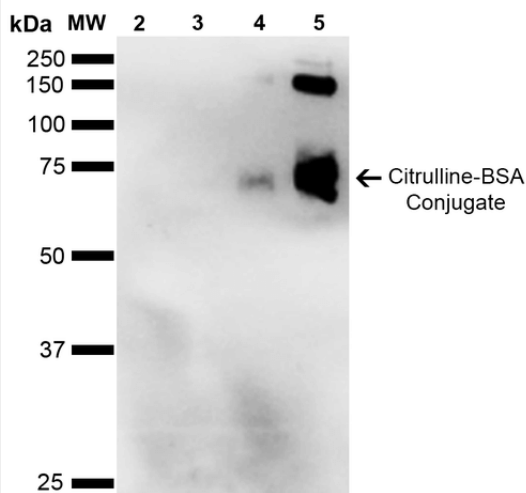
Citrulline Antibody - Images



Immunohistochemistry analysis using Mouse Anti-Citrulline Monoclonal Antibody, Clone 2D3.1 (ASM10328). Tissue: Thyroid Cancer. Species: Human. Primary Antibody: Mouse Anti-Citrulline Monoclonal Antibody (ASM10328) at 1:100 for Overnight at 4C, then 30 min at 37C. Secondary Antibody: Goat Anti-Mouse IgG (H+L): FITC for 45 min at 37C. Counterstain: DAPI for 3 min at RT. Magnification: 5X.



Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Citrulline Monoclonal Antibody, Clone 2D3.1 (ASM10328). Tissue: Embryonic kidney epithelial cell line (HEK293). Species: Human. Fixation: 5% Formaldehyde for 5 min. Primary Antibody: Mouse Anti-Citrulline Monoclonal Antibody (ASM10328) at 1:50 for 30-60 min at RT. Secondary Antibody: Goat Anti-Mouse Alexa Fluor 488 at 1:1500 for 30-60 min at RT. Counterstain: Phalloidin Alexa Fluor 633 F-Actin stain; DAPI (blue) nuclear stain at 1:250, 1:50000 for 30-60 min at RT. Magnification: 20X (2X Zoom). (A) DAPI (blue) nuclear stain. (B) Phalloidin Alexa Fluor 633 F-Actin stain. (C) Citrulline Antibody (D) Composite. Courtesy of: Dr. Robert Burke, University of Victoria.



Western Blot analysis of Citrulline-BSA Conjugate showing detection of 67 kDa Citrulline protein using Mouse Anti-Citrulline Monoclonal Antibody, Clone 2D3-1B9 (ASM10328). Lane 1: Molecular Weight Ladder (MW). Lane 2: BSA (0.5 µg). Lane 3: BSA (2.0 µg). Lane 4: Citrulline-BSA (0.5 µg). Lane 5: Citrulline-BSA (2.0 µg). Block: 5% Skim Milk in TBST. Primary Antibody: Mouse Anti-Citrulline Monoclonal Antibody (ASM10328) at 1:1000 for 2 hours at RT. Secondary Antibody: Goat Anti-Mouse IgG: HRP at 1:2000 for 60 min at RT. Color Development: ECL solution for 5 min in RT. Predicted/Observed Size: 67 kDa.