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# Alginate Antibody
## Alginate Antibody, Clone 4B10-1C5
## Catalog # ASM10153

## Specification

### Alginate Antibody - Product Information

| | |
|---|---|
| Application | **IHC, WB** |
| Host | **Mouse** |
| Isotype | **IgG1 Kappa** |
| Clonality | **Monoclonal** |

**Description**
Mouse Anti- Alginate Monoclonal IgG1 Kappa

**Target/Specificity**
Binds selectively to a BSA-conjugated alginate, but not to unconjugated BSA.

**Other Names**
Alginic Acid Antibody, Algin Antibody, Sodium Alginate Antibody

**Immunogen**
Sodium Alginate conjugated to KLH

**Purification**
Protein G Purified

| | |
|---|---|
| Storage | **-20ºC** |

**Storage Buffer**
PBS pH7.4, 50% glycerol, 0.09% sodium azide

| | |
|---|---|
| Shipping Temperature | **Blue Ice or 4ºC** |

**Certificate of Analysis**
1 µg/ml of SMC-208 was sufficient for detection of 150 ng of alginate-conjugated BSA by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.

### Alginate 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 Cytomety
- Cell Culture

### Alginate Antibody - Images

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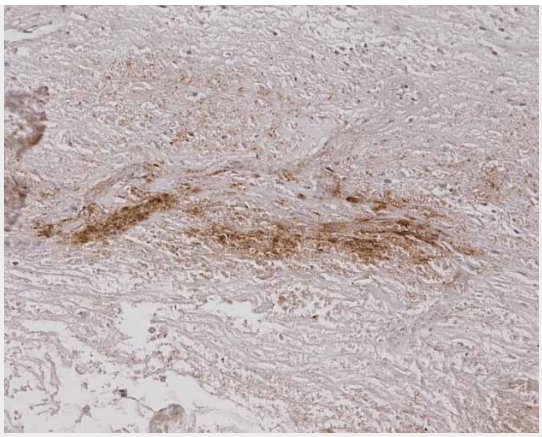
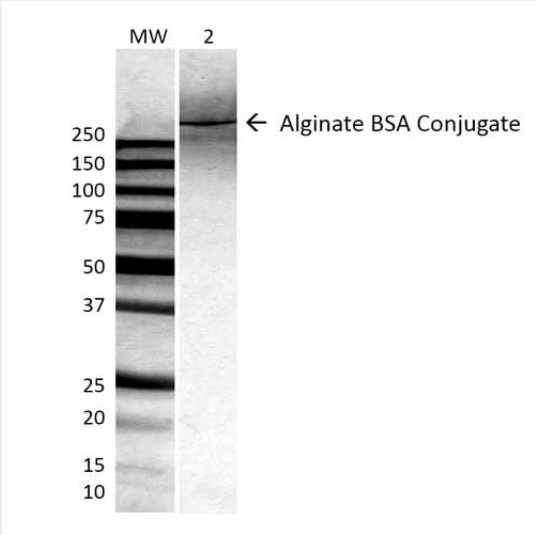


Immunohistochemistry analysis using Mouse Anti-Alginate Monoclonal Antibody, Clone 4B10-1C5 (ASM10153). Tissue: Burned Skin. Species: Human. Primary Antibody: Mouse Anti-Alginate Monoclonal Antibody (ASM10153) at 1:200.




Western Blot analysis of ALL BSA-Alginate Conjugate showing detection of ~250 kDa Alginate protein using Mouse Anti-Alginate Monoclonal Antibody, Clone 4B10-1C5 (ASM10153). Lane 1: MW ladder. Lane 2: 0.625ug BSA:Alginate. Load: 0.625 µg. Block: 5% milk + TBST for 1 hour at RT. Primary Antibody: Mouse Anti-Alginate Monoclonal Antibody (ASM10153) at 1:500 for 1 hour at RT. Secondary Antibody: HRP Goat Anti-Mouse at 1:100 for 1 hour at RT. Color Development: TMB solution for 2 min at RT. Predicted/Observed Size: ~250 kDa.

## Alginate Antibody - Background

Sodium alginate is used in biological experiments for the immobilization of cells and encapsulation due to its biocompatibility and simple gelation with divalent cations such as Ca2+. Studies suggest that preparation of alginate microspheres will sustain protein delivery within tissue scaffolds (1), as well as in many other cell types (2).

## Alginate Antibody - References

1. Zhai P., Chen X.B., and Schreyer D.J. (2013) Biofabrication. 5(1): 015009.
2. Selimoglu S.M., Ayyildiz-Tamis D., Gurhan I.D., and Elibol M. (2012) J Biosci Bioeng. 113(2):233-238.