

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

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**Alginate Antibody - Product Information**

Application	<b>WB, IHC</b>
Host	<b>Mouse</b>
Isotype	<b>IgG1 Kappa</b>
Clonality	<b>Monoclonal</b>
<b>Description</b>	
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	<b>-20°C</b>
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**Storage Buffer**

PBS pH7.4, 50% glycerol, 0.09% sodium azide

Shipping Temperature	<b>Blue Ice or 4°C</b>
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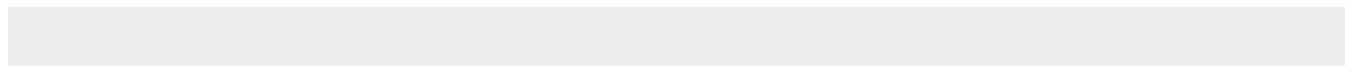
**Certificate of Analysis**

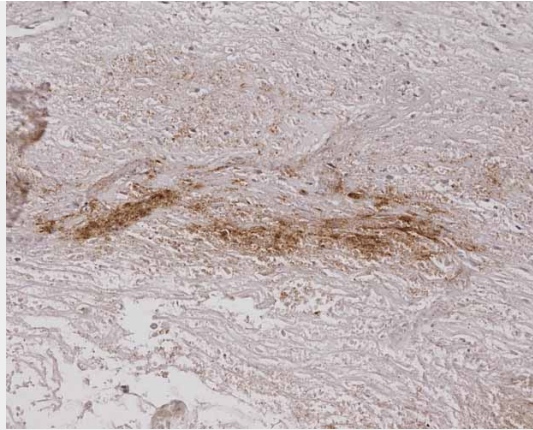
1 µg/ml of SMC-208 was sufficient for detection of 150 ng of alginate-conjugated BSA by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.

**Alginate Antibody - Protocols**

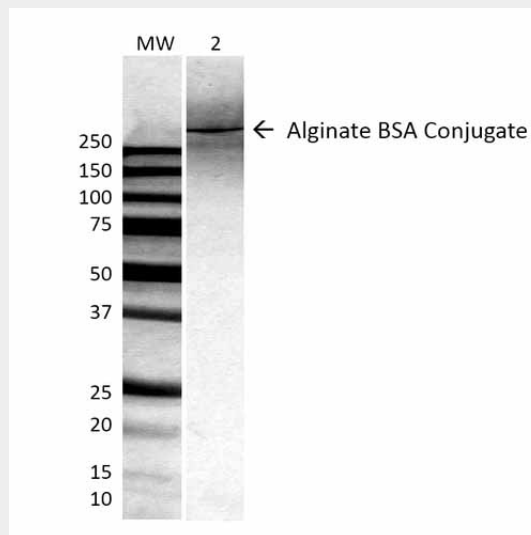
Provided below are standard protocols that you may find useful for product applications.

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

**Alginate Antibody - Images**



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  $\mu$ g. 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  $\text{Ca}^{2+}$ . 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.