

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 **-20°C**

Storage Buffer

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

Shipping Temperature **Blue Ice or 4°C**

Certificate of Analysis

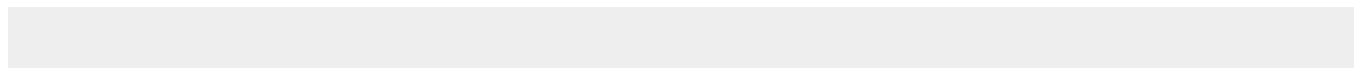
1 µg/ml of SMC-208 was sufficient for detection of 150 ng of alginate-conjugated BSA by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.

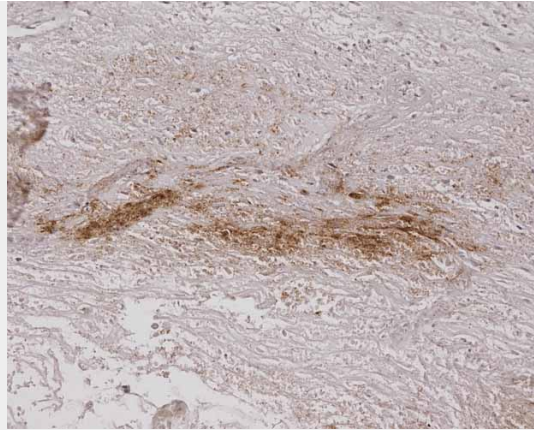
Alginate Antibody - Protocols

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

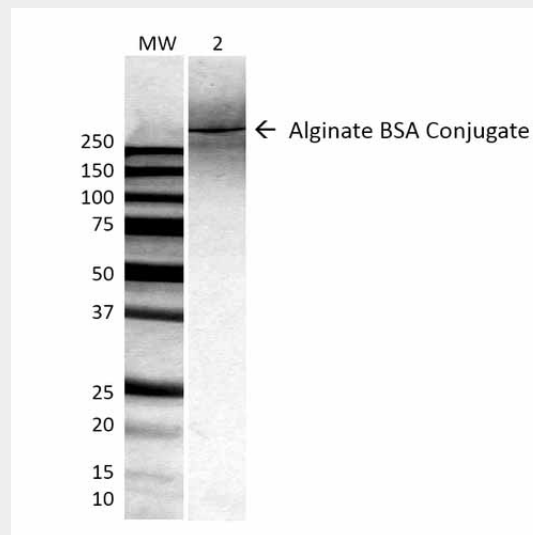
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

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 μ 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 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.