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Alginate Antibody
Alginate Antibody, Clone 3G4-1F5
Catalog # ASM10154

Specification

Alginate Antibody - Product Information

Application	**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

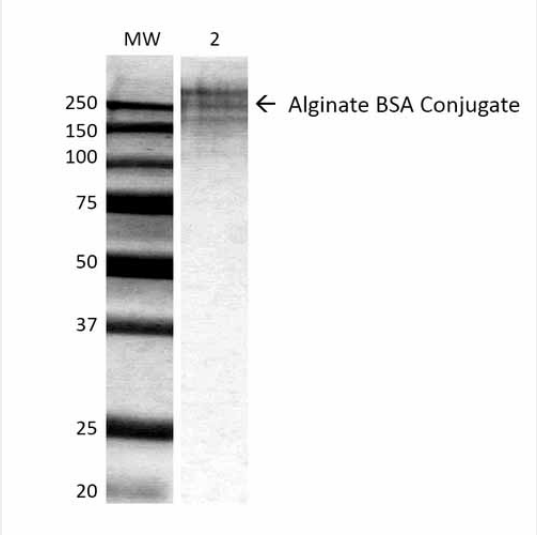
Purification
Protein G Purified

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-209 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.



Western Blot analysis of ALL BSA-Alginate Conjugate showing detection of ~250 kDa Alginate protein using Mouse Anti-Alginate Monoclonal Antibody, Clone 3G4-1F5 (ASM10154). 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 (ASM10154) 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 - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot

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)

- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

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.