Mouse Alginate Monoclonal Antibody

Alginate Antibody: ATTO 488

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA103176	**Mouse**	**Species Independent**	**Western Blot, Immunohistochemistry**

PRODUCT SYNONYMS

Alginate; Monoclonal Antibody; Alginate Antibody: ATTO 488; anti-Alginate antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Species Independent
Clonality	Monoclonal
Isotype	IgG1
Clone Number	4B10-1C5
Form/Format	Protein G Purified
Concentration	1mg/mL (varies by lot)
Applicable Applications for anti-Alginate antibody	WB (Western Blot), IHC (Immunohistochemistry)
Conjugate	ATTO 488
Storage Buffer	PBS pH7.4, 50% glycerol
Preparation and Storage	-20 degree C

IMAGES

WB (Western Blot)
Western Blot analysis of ALL BSA-Alginate Conjugate showing detection of ~250 kDa Alginate protein using Mouse Anti-Alginate Monoclonal Antibody, Clone 4B10-1C5. Lane 1: MW ladder. Lane 2: 0.625ug BSA:Alginate. Load: 0.625 ug. Block: 5% milk + TBST for 1 hour at RT. Primary Antibody: Mouse Anti-Alginate Monoclonal Antibody 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.

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

ADDITIONAL INFORMATION

Related Product Information for anti-Alginate antibody	**Background Info:** Binds selectively to a BSA-conjugated alginate, but not to unconjugated BSA. **Scientific 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).

Product Categories/Family for anti-Alginate antibody	Post-translational Modifications
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.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/monoclonal/alginate-antibody-clone-4b10-1c5-western-blot-immunohistochemistry-elisa/103176