

Mouse flagellin Monoclonal Antibody | anti-FlaA antibody

Anti-flagellin Antibody, Mouse Monoclonal

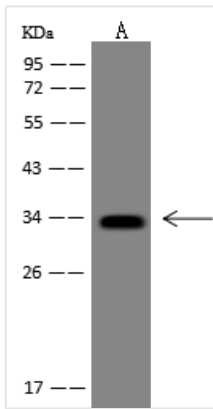
CATALOG # AAA257036	HOST Mouse	REACTIVITY Listeria monocytogenes	APPLICATIONS ELISA, Western Blot
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PRODUCT SYNONYMS

flagellin; Monoclonal Antibody; Anti-flagellin Antibody; Mouse Monoclonal; Listeria monocytogenes flagellin/FlaA Antibody; Mouse MAb; Anti-flaA Antibody; anti-FlaA antibody

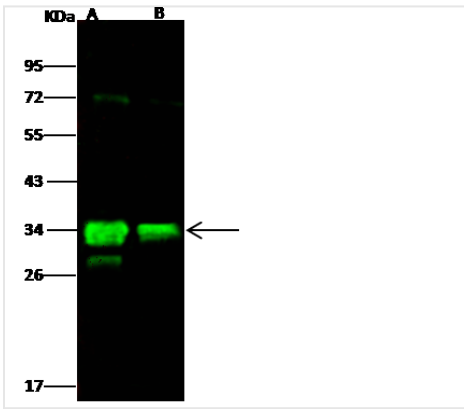
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Listeria monocytogenes
Clonality	Monoclonal
Isotype	Mouse IgG1
Clone Number	06
Specificity	Listeria monocytogenes Listeria monocytogenes flagellin/FlaA. No cross-reactivity in ELISA with E Coli cell lysate
Purity/Purification	Protein A
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-FlaA antibody	ELISA, WB (Western Blot)
Immunogen	Recombinant Listeria monocytogenes Listeria monocytogenes flagellin/FlaA protein
Conjugation	Unconjugated
Preparation	This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, recombinant Listeria monocytogenes Listeria monocytogenes flagellin/FlaA.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.



WB (Western Blot)

Anti-Listeria monocytogenes flagellin / flaA mouse monoclonal antibody at 1:1000 dilution. Sample: Listeria monocytogenes flagellin / flaA Recombinant Protein Lane A: 10ng Secondary Goat Anti-Mouse IgG (H+L)/HRP at 1/10000 dilution. Developed using the ECL technique. Performed under reducing conditions.



WB (Western Blot)

Anti-Listeria monocytogenes flagellin / flaA mouse monoclonal antibody at 1:1000 dilution. Sample: Listeria monocytogenes flagellin / flaA Recombinant Protein Lane A: 200ng Lane B: 50ng Secondary Goat Anti-Mouse IgG H&L (Dylight800) at 1/15000 dilution. Developed using the Odyssey technique. Performed under reducing conditions.

ADDITIONAL INFORMATION

Related Product Information for anti-FlaA antibody

The role of flagella and motility in the attachment of the foodborne pathogen *Listeria monocytogenes* to various surfaces is mixed with some systems requiring flagella for an interaction and others needing only motility for cells to get to the surface. In nature this bacterium is a saprophyte and contaminated produce is an avenue for infection. Previous studies have documented the ability of this organism to attach to and colonize plant tissue. Motility mutants were generated in three wild type strains of *L. monocytogenes* by deleting either FlaA, the gene encoding flagellin, or motAB, genes encoding part of the flagellar motor, and tested for both the ability to colonize sprouts and for the fitness of that colonization. The motAB mutants were not affected in the colonization of alfalfa, radish, and broccoli sprouts; however, some of the FlaA mutants showed reduced colonization ability. The best colonizing wild type strain was reduced in colonization on all three sprout types as a result of a FlaA deletion. A mutant in another background was only affected on alfalfa. The third, a poor alfalfa colonizer was not affected in colonization ability by any of the deletions. Fitness of colonization was measured in experiments of competition between mixtures of mutant and parent strains on sprouts. Here the FlaA and motAB mutants of the three strain backgrounds were impaired in fitness of colonization of alfalfa and radish sprouts, and one strain background showed reduced fitness of both mutant types on broccoli sprouts. Together these data indicate a role for flagella for some strains to physically colonize some plants, while the fitness of that colonization is positively affected by motility in almost all cases.

References

Gorski L. et al., 2009, PLoS ONE. 4 (4): E5142. Tresse O. et al., 2009, Can J Microbiol. 55: 189-96. Schirm M. et al., 2004, J Bacteriol. 186: 6721-7.

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/flagellin-antibody-clone-06-western-blot-elisa/257036>