

Anti-N-acyl homoserine lactones [RS2-1G9] Standard Size Ab00343-1.4

Recombinant monoclonal antibody to N-acyl homoserine lactones. Manufactured using AbAb's Recombinant Platform with variable regions (i.e. specificity) from the hybridoma RS2-1G9. This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

Isotype and Format: Mouse IgG1, Fc Silent™, Lambda

Clone Number: RS2-1G9

Alternative Name(s) of Target: HSL, AHL

UniProt Accession Number of Target Protein:

Published Application(s): Blocking, infectious disease, ELISA

Published Species Reactivity: P. aeruginosa

Immunogen: The 4-methoxyphenyl amide AHL analog.

Specificity: Binds 3-oxo-C12-HSL with a K_d of 150 nM

Application Notes: This antibody, originally raised in mice, binds to several homoserine lactones from P. aeruginosa. Homoserine lactones (HSL) are signalling molecules in bacteria used for quorum sensing, required for successful establishment of infection. RS2-1G9 interferes with quorum sensing and was shown to protect murine bone marrow derived macrophages, from the cytotoxic P. aeruginosa quorum sensing signalling molecule N-3-oxo-dodecanoyl-homoserine lactone (PMID: 18304641).

Antibody First Published in: Kaufmann et al. 2006 Antibody Interference with N-Acyl Homoserine Lactone-Mediated Bacterial Quorum Sensing. Journal of the American Chemical Society. 2006; 128 (9): 2802-2803 [PMID:16506750](#)

Note on publication: Describes the design of HSL-analogous haptens used for the immunization of mice for hybridoma production of the 1G9 antibody as well as characterization of the inhibition of quorum sensing by the produced antibodies.

Product Form

Size: 200 µg Purified antibody.

Purification: Protein A affinity purified

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note - This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.