ANTI-BRUCELLA ABORTUS

Host: Chicken
Antibody Type: Polyclonal Antibody
Isotype: IgY
Preparation: Total IgY fraction
Immunogen: The antibody is raised against formalin-inactivated Brucella abortus
Specificity: Brucella sp.
Volume/Quantity: 100 µg (in 200 µl)
Buffer Solution: Phosphate buffered saline, 0.1% sodium azide
Storage: For continuous use, store at +4°C. For extended storage freeze at -20°C. Avoid repeated freeze-thawing.

Description: Brucella is a facultative intracellular bacterial pathogen that survives and multiplies inside cells of the infected host, such as macrophages. There are at least seven species of Brucella exhibiting different affinities for host mammals. Brucella abortus, the species to which this antibody is raised, is a bovine parasite leading to Brucellosis, a disease that can be transmitted to humans with possible fatal outcome and for which there is no known vaccine. For the latter reasons and the fact that this is an airborne pathogen with significant potential as a bioterrorism agent it has been classified as a Biosafety Level 3 Pathogen. Brucella enters cells by phagocytosis and subsequently subverts the intracellular vesicle trafficking degradative pathways to eventually access the neutral environment of the endoplasmic reticulum, its preferred replicative niche. The internalized pathogens avoid the killing machinery of the macrophage by preventing phagosome-lysosome fusion by an as yet undefined mechanism (see figure). Further characterization of Brucella abortus in tandem with an understanding of the intracellular organelles through which it transits will likely lead to the identification of the molecular players involved in the virulence of this pathogen.

References:
Applications: This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Contact us for further information.

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<th>Application</th>
<th>Yes</th>
<th>No</th>
<th>N/D</th>
<th>Suggested Working Dilution</th>
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Health and Safety Information: This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Usage: Hyperomics’ products are furnished for LABORATORY RESEARCH USE ONLY. This product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.