

AM32307SU-N**Monoclonal Antibody to *Proteus* spp - Supernatant**

Quantity:	1 ml
Background:	<p><i>Proteus</i> is a genus of Gram-negative Proteobacteria, which includes pathogens responsible for many human urinary tract infections. <i>Proteus</i> exhibit characteristic swarming, and they are part of the normal flora of the gastrointestinal (GI) tract. Three of the <i>Proteus</i> species, <i>P. vulgaris</i>, <i>P. mirabilis</i> and <i>P. penneri</i>, are pathogenic to humans, causing chronic urinary tract infections, bacteremia, pneumonia and focal lesions. These species only become pathogenic if present outside the GI tract. <i>Proteus</i> species can easily adhere to the kidney urothelium, which facilitates the upper urinary tract. <i>Proteus</i> also hydrolyzes urea, which alters the pH of urine and may lead to the formation of kidney stones. Some <i>Proteus</i> species are motile, and all are oxidase negative, urease positive, aerobic, rod shaped bacilli that do not ferment lactose.</p>
Host / Isotype:	Mouse / IgG2a
Clone:	31-17
Format:	State: Liquid (sterile filtered) Undiluted Tissue Culture Supernatant Preservatives: 0.09% Sodium Azide Stabilizers: 1% BSA
Applications:	Immunofluorescence. Detection by luminescence, polymerase chain reaction or culture. Magnisort-M particles (DuPont) are diluted 25 times in PBS (+ 1% gelatin). 50 µl is transferred into a microtiterplate well. Add 50-75 µl antibody solution, incubate shaking 15 min. at room temperature. Magnetize plate and remove supernatant. Add 75 µl bacteria suspension and incubate shaking 15 min. at room temperature. Magnetize plate and wash beads three times with PBS-gelatin. Resuspend beads in appropriate volume and prepare for specific detection. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	The antibody clone 31-17 reacts with approximately 50% of the <i>Proteus</i> spp. isolates tested. This antibody reacts with bacteria in suspension and is therefore useful for detection of <i>Proteus</i> spp. in bacterial suspensions. Various systems can be used with this antibody to detect the presence of <i>Proteus</i> spp.
Storage:	Store the antibody undiluted at 2-8°C. Shelf life: one year from despatch.
General Readings:	1. Widjojoatmodjo, M.N., et al., 1992, Eur. J. Clin. Microbio. Infect. Dis. 10, 935-38.