

12-8552: Anti-E. coli K99 pili (Clone K9912-349.2)

Clonality :	Monoclonal
Clone Name :	K9912-349.2
Application :	ELISA
Alternative Name :	F5 fimbriae, F5 pilus, K99 fimbriae, K99 antigen
Isotype :	Mouse IgG1
Immunogen Information :	Purified E. coli K99 (B44) pili

Description

Specificity

These antibodies recognize K99+ E. coli. They do not cross-react with K99-negative E. coli (B41), E. coli K88ac, E. coli 987P, Proteus mirabilis, Proteus vulgaris, Pseudomonas aeruginosa, Enterobacter aerogenes, Citrobacter freundii, Klebsiella pneumoniae, or Strep. agalactiae.

Background

Bovine enteric colibacillosis is an economically important disease in neonatal calves caused by enterotoxigenic E. coli (ETEC) which adhere to intestinal cells using pili. Most ETEC isolated from cattle use K99 pili to bind to enterocytes of the small intestine. K99 pili are primarily composed of a repeating 18.2kDa major subunit which is responsible for binding to host glycoprotein receptor, N-glycolylneuraminic acid-GM3. A 7.1kb operon of eight genes on a plasmid encode the pili and other associated proteins responsible for regulation, transport, and assembly of K99 pili.

Product Info

Amount :	500 µg / 100 µg
Purification :	Preparation: Antibodies are purified by a multi-step process including the use of protein A or G to assure extremely low levels of endotoxins, leachable protein A or aggregates. Concentration: Lot Specific
Content :	Formulation: This monoclonal antibody is formulated in phosphate buffered saline (PBS) pH 7.2 - 7.4 with no carrier protein or preservatives added.
Storage condition :	This antibody is stable for at least one (1) year at -20°C to -70°C. Store product in appropriate aliquots to avoid multiple freeze-thaw cycles.

Application Note

These antibodies have been qualified for use in ELISA to detect K99+ E. coli.