**BACKGROUND**

*Escherichia coli* is a member of the family *Enterobacteriaceae*, and it is one of the main species of bacteria living in the lower intestines of mammals. *E. coli* is a Gram-negative, rod-shaped, aerobic microbe that is commonly used as a model organism for bacteria in general. The K99 pilus antigen plays a large role in *E. coli* attachment and colonization in the small intestine. *E. coli* is the cause of a wide variety of infections in mammals including urinary tract infections, meningitis, peritonitis, mastitis, septicemia and Gram-negative pneumonia. Because of the important role of *E. coli* in modern biological engineering, researchers commonly take advantage of this bacteria. *E. coli* can be easily altered to synthesize DNA or proteins, which can then be produced in large quantities using industrial fermentation processes.

**REFERENCES**


**SOURCE**

*E. coli* (404) is a mouse monoclonal antibody raised against pool of four *E. coli* serotypes which are associated with human urinary tract infections: O18:B21, O44:K74, O112:B11 and O125:B15.

**PRODUCT**

Each vial contains 100 µg IgG2b in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

**APPLICATIONS**

*E. coli* (404) is recommended for detection of *E. coli* serotypes O2a/2b, O7, O11, O18, O44, O75, O112 and O125 by solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with *Enterobacter aerogenes*, *Klebsiella pneumoniae*, *Proteus mirabilis*, *Proteus vulgaris*, *Pseudomonas aeruginosa* or *Serratia marcescens*.

**STORAGE**

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**RESEARCH USE**

For research use only, not for use in diagnostic procedures.

**PROTOCOLS**

See our web site at www.scbt.com for detailed protocols and support products.