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Polyclonal Antibody to Escherichia coli (O & K antigens) - Biotin

Catalog No.: 15-288-21092

Quantity: 0.1 mg

Concentration: 4-5 mg/ml (OD280 nm, E0.1% = 1.4)

Background: Escherichia coli is a gram negative bacillus that belongs to a larger group of Enterobacteriae - bacteria that inhabit the gastrointestinal tract. Although usually a harmless resident of the gut, some strains have the potential to cause serious problems, especially where there is an immature immune system or immunosuppression, or where the subtype of organism has acquired the ability to produce pathogenic toxins.

Host / Isotype: Chicken

Immunogen: Mixture of E. coli serotypes

Format: **State:** Liquid purified IgG fraction.
Purification: Protein A Chromatography.
Buffer System: 0.01 M PBS, pH 7.2 containing 0.09% Sodium Azide as preservative and no stabilizers.
Label: Covalently coupled with the N-Hydroxysuccinimide ester of Biotin under mild conditions to give a high degree of substitution

Applications: Avidin and streptavidin amplification systems for **ELISA** and **Fluorescence Microscopy.**
Has been described for previous lots to work in **Western blot.**
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: Many O and K antigenic serotypes of E. coli.
Not absorbed and does cross-react with related Enterobacteriaceae.
Will remove E.coli proteins from recombinant preparations.

Storage: Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

General References:
1. Salminen, A. et al. (2007): Inhibition of P-fimbriated E. coli adhesion by multivalent galabiose derivatives studied by a live-bacteria application of surface plasmon resonance. Journal of Antimicrobial Chemotherapy, 60: 495-501.