ALPHA DIAGNOSTIC INTERNATIONAL

Product Specification Sheet

C. perfringens Antibodies

Cat# CLPF11-A | Rabbit Anti-C. perfringens (ATCC 13124) IgG | **SIZE**: 1 ml

Clostridium perfringens *(C. perfringens, formerly known as C. welchii, or Bacillus welchii)* is a rod-shaped **Gram-positive bacterium** that is found in many environmental sources as well as in the intestines of humans and animals. Anaerobic, spore-forming bacterium *C. perfringens* is distributed ubiquitously throughout the environment and is responsible for food poisoning, gastrointestinal disease, gas gangrene and related necrotic conditions (enteritis or enterotoxemia) in humans and other mammals. A commonly used toxin typing classification system assigns *C. perfringens* isolates to types A to E based upon their ability to produce four typing **toxins (alpha, beta, epsilon and iota-toxins**). **Type A** bacteria produce alpha toxin, **type B** bacteria produce alpha, beta, and epsilon toxins, **type C** bacteria produce alpha and beta toxins, **type D** bacteria produce alpha and epsilon toxins, and **type E** bacteria proteins produce alpha and iota toxins. *C. perfringens* enterotoxin (CPE) is the main virulent factor that initiates many critical GI diseases. C. perfringens types A-E variants are differentiated by their serological properties and specific toxins.

Source of Antigen and Antibodies

Antigen	Clostridium perfringens ATCC 13124
Ab Host/type	Rabbit, Polyclonal, Protein G purified
Secondary antibody	Anti-rabbit IgG-HRP cat # 20320 (AP, biotin, FITC conjugates also available)
Negative control IgG	# 20009-1, Rabbit (non-immune) IgG, purified, suitable for ELISA, Western, IHC as negative control

Form & Storage of Antibodies

Protein G purified Ab, 1 ml

- Solution: Supplied in PBS with 0.05% azide
- Lyophilized

Storage

Short-term: unopened, undiluted liquid vials at **-20°C** and powder at **4°C or -20°C**.

Long-term: at **–20°C** or below in suitable aliquots after reconstitution. Do not freeze and thaw and store working, diluted solutions.

Stability: 6-12 months at **–20°C** or below.
Shipping: **4°C** for solutions and room temperature for powder

Recommended Usage

Western Blotting

ELISA

Histochemistry

General References: Okabe A (1989) BBRC 160, 33-39; Titball RW (1989) Infect. Immun. 57 (2), 367-376; Tso JY (1989) Infect. Immun. 57 (2), 468-476; Myers GS (2006) Genome Res. 16 (8), 1031-1040; Nagahama M (1995) J. Bacteriol. 177 (5), 1179-1185; Ginters A (1996) Microbiology 142 (PT 1), 191-198; Titball RW (1999) Anaerobe 5 (2), 51-64;

For research use only (RUO)

Related items

CPA11-C Recombinant (E.coli) C. perfringens alpha toxin protein control for western blot
CPA11-S Rabbit Anti-C. perfringens alpha toxin antiserum
CPA15-R-10 Recombinant (E.coli) C. perfringens alpha toxin purified protein
CPB12-C Recombinant (E.coli) C. perfringens beta toxin protein control for western blot
CPB12-S Rabbit Anti-C. perfringens beta toxin antiserum
CPB16-R-10 Recombinant (E.coli) C. perfringens beta toxin purified protein
CPD11-A Rabbit Anti-C. perfringens type D IgG
CPE13-C Recombinant (E.coli) C. perfringens epsilon toxin protein control for western blot
CPE13-S Rabbit Anti-C. perfringens epsilon toxin antiserum
CPE17-R-10 Recombinant (E.coli) C perfringens epsilon toxin purified protein

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