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Bacteroides fragilis enterotoxin upregulates heme oxygenase-



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Manuscript NO: 52287

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Basic Study

***Bacteroides fragilis* enterotoxin upregulates heme oxygenase-1 in dendritic cells via reactive oxygen species-, mitogen-activated protein kinase-, and Nrf2-dependent pathway**

Ko SH *et al.* *B. fragilis* enterotoxin-induced HO-1 expression

Su Hyuk Ko, Jong Ik Jeon, Hyun Ae Woo, Jung Mogg Kim

Abstract

BACKGROUND

Enterotoxigenic *Bacteroides fragilis* (ETBF) causes colitis and diarrhea, and is considered a candidate pathogen in inflammatory bowel diseases as well as colorectal cancers. These diseases are dependent on ETBF-secreted toxin (BFT). Dendritic cells (DCs) play an important role in directing the nature of adaptive immune responses to bacterial infection and heme oxygenase-1 (HO-1) is

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Sep 01, 2016 · The **Bacteroides fragilis enterotoxin** (BFT), a virulence factor of enterotoxigenic **B. fragilis** (ETBF), interacts with intestinal epithelial **cells** and can provoke signals that induce mucosal inflammation. Although expression of **heme oxygenase-1** (HO-1) is associated with regulation of inflammatory responses, little is known about HO-1 induction in ETBF infection.

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Bacteroides fragilis enterotoxin induces cyclooxygenase-2 ...

<https://onlinelibrary.wiley.com/doi/full/10.1002/eji.200535808>

Bacteroides fragilis produces an approximately 20-kDa heat-labile toxin (**B. fragilis enterotoxin**, BFT) which is known to be associated with diarrhea. To determine whether cyclooxygenase (COX)-2, via NF-κB activation, can contribute to BFT-induced diarrhea, the relationship between COX-2 expression and fluid secretion in BFT-stimulated human intestinal epithelial **cells** was examined.



Bacteroides fragilis enterotoxin upregulates heme oxygenase-1



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