



LD Biopharma, Inc.
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- PRODUCT DATA SHEET -

Name of Product: Recombinant Human FIBCD1 (Fibrinogen Domain) Protein
Catalog Number: HRP-3193
Manufacturer: LD Biopharma, Inc. USA

Introduction

Human Fibrinogen C domain-containing protein 1 (FIBCD1) gene encodes a single pass type-II membrane protein, which function as acetyl group-binding receptor. It shows a high-affinity and calcium-dependent binding to acetylated structures such as chitin, some N-acetylated carbohydrates, and amino acids, but not to their non-acetylated counterparts. FIBCD1 can facilitate the endocytosis of acetylated components. FIBCD1 mainly expressed in the small and large intestinal epithelial cells with a highly polarized localization to the apical surface corresponding to the brush border and in the ducts of the salivary gland.

Fibrinogen domain of human FIBCD1 cDNA (235 – 458aa) was constructed with codon optimization gene synthesis and expressed with a SuperGFP Protein N-terminal (sfGFP; 257aa) fusion at target protein N-terminal and 11 arginine tag (11R tag) at its C-terminal in E.coli as inclusion bodies. The final product was refolded using our unique “temperature shift inclusion body refolding” technology and chromatographically purified.

Gene Symbol: FIBCD1
Accession Number: NP_116232
Species: Human
Size: 50 µg / Vial
Composition: 2.0 mg/ml, sterile-filtered, in 20 mM pH 8.0 Tris-HCl Buffer, with proprietary formulation of NaCl, KCl, EDTA, Sucrose, DTT and others.
Storage: In Liquid. Keep at -80°C for long term storage. Product is stable at 4 °C for at least two weeks.

Key References



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Jepsen CS, et al., *FIBCD1 Binds Aspergillus fumigatus and Regulates Lung Epithelial Response to Cell Wall Components*. Front Immunol 9, 1967 (2018)

Jiang C, et al., *Overexpression of FIBCD1 Is Predictive of Poor Prognosis in Gastric Cancer*. Am J Clin Pathol 149 (6), 474-483 (2018)

von Huth S, et al., *Immunohistochemical Localization of Fibrinogen C Domain Containing 1 on Epithelial and Mucosal Surfaces in Human Tissues*. J Histochem Cytochem 66 (2), 85-97 (2018)

Applications

1. May be used for in vitro **FIBCD1** Fibrinogen domain mediated cell endocytosis pathway regulation study in vitro for intestinal epithelial cells with this recombinant sGFP-FIBCD1 protein either as soluble factor or coating materials.
2. May be used for **FIBCD1** Fibrinogen domain protein-protein interaction assay.
3. As human **FIBCD1** Fibrinogen domain antigen for its specific antibody production.

Quality Control

Purity: > 92% by SDS-PAGE.

Recombinant sGFP- Human FIBCD1 (fibrinogen domain) Protein Sequence (55.1 kD)

MKHHHHHHQVSKGEELFTGVVPII~~VEL~~DGDVNGHKFSVRGEGEGDATNGKLT~~LKFI~~CTTGKLPV
PWPTLVTT~~LT~~YG~~VQ~~CF~~S~~RY~~PD~~HM~~KR~~H~~D~~FF~~K~~SAM~~PE~~GY~~VQ~~ERTIS~~FK~~DDGTYKTRA~~EV~~K~~FE~~GD~~TL~~
VNRIELK~~GID~~FK~~ED~~GNIL~~GH~~KLEYN~~F~~NS~~H~~NVYIT~~AD~~K~~Q~~KN~~G~~IKAN~~F~~KIR~~H~~N~~VE~~D~~G~~SV~~QL~~AD~~HY~~Q
QNTPI~~G~~D~~G~~PVLL~~PD~~NH~~Y~~LST~~Q~~SV~~L~~SK~~D~~PNE~~K~~RD~~H~~MV~~L~~LE~~F~~V~~T~~AAGITH~~G~~M~~D~~E~~L~~Y~~K~~S~~G~~L~~R~~S~~G~~G~~S~~G
GENLYFQRSCATGSRPRDCLDVLLSGQQDDGVYSVFPTHYPAGFQVYCDMRTDGGGWTVFQRRE
DGSV~~N~~FF~~R~~G~~W~~DA~~Y~~R~~D~~G~~F~~GR~~L~~T~~G~~E~~H~~W~~L~~GL~~K~~RI~~H~~AL~~T~~T~~Q~~AAYEL~~H~~V~~D~~LE~~D~~FENG~~T~~AYARYGS~~F~~G~~V~~G
LFS~~V~~D~~P~~EED~~G~~Y~~P~~L~~T~~VAD~~Y~~SG~~T~~AG~~D~~SL~~L~~K~~H~~SG~~M~~R~~F~~TT~~K~~DR~~D~~SD~~H~~SE~~N~~NCAAFY~~R~~GAW~~W~~Y~~R~~N~~C~~H~~T~~S
NLNGQYLRGAHASYADGVEWSSWTGWQYSLKFSEM~~K~~IR~~P~~V~~R~~