

# Human CellExp™ FGL1, Human Recombinant

**CATALOG NO:** P1476-10 10 µg  
P1476-50 50 µg

**ALTERNATE NAMES:** FGL1, Hepassocin, HP-041, HFREP-1, LFIRE-1, HFREP1

**MOL. WT.** This protein carries a polyhistidine tag at the N-terminus. The protein has a calculated MW of 36.0 kDa. The protein migrates as 33-35 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

**SOURCE:** HEK 293 cells

**PURITY:** >95%

**ENDOTOXIN:** Less than 1.0 EU per µg by the LAL method.

**FORM:** Lyophilized

**FORMULATION:** Lyophilized from 0.22 µm filtered solution in PBS with Arginine, pH7.4. Normally trehalose is added as protectant before lyophilization.

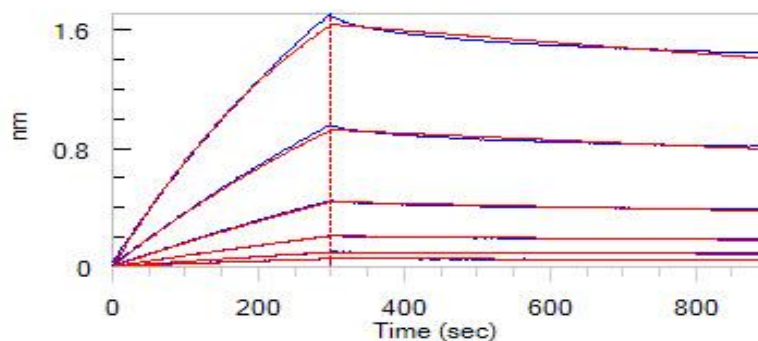
**RECONSTITUTION:** Reconstitute in sterile deionized water to the desired protein concentration.

**SPECIFIC ACTIVITY:** Immobilized Human LAG-3, Mouse IgG2a Fc Tag at 10 µg/mL (100 µL/well) can bind Human FGL1, His Tag with a linear range of 0.078-0.625 µg/mL. Serial dilutions of Anti-LAG3, Neutralizing Antibody were added into Human FGL1, His Tag: Biotinylated Human LAG-3, Fc, Avitag binding reactions. The half maximal inhibitory concentration (IC50) is 0.16695 µg/mL

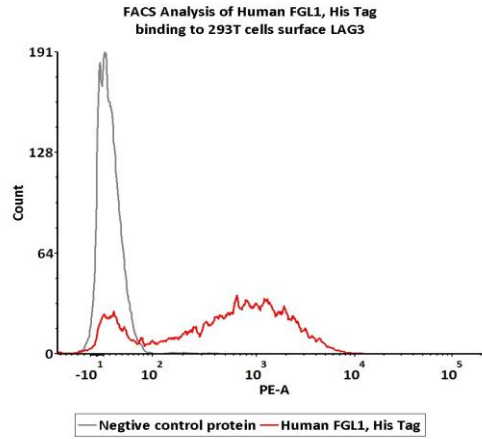
**STORAGE CONDITIONS:** Store at -20°C. After reconstitution, aliquot and store at -70°C and use within 3 months. Avoid repeated freezing and thawing cycles.

**DESCRIPTION:** Fibrinogen-like protein 1(FGL1) is also known as HP-041, Hepassocin, HFREP-1, LFIRE-1. The protective effect of fibrinogen-like protein 1 (FGL1) in liver injury has previously been reported. However, studies have shown that FGL1 may be a predictor of GC patients and a target for GC therapy. Immunocytochemical studies revealed that fgl1 selectively binds to defective spermatozoa in the cauda epididymidis. Northern blot analysis and in situ hybridization demonstrated the high expression of fgl1 in the principal cells of the proximal cauda epididymidis. Immunofluorescence analysis using mouse fibrotic lung tissues suggested that fibrotic regions showed increased expressions of Gtse1 and Fgl1, Gtse1 and Fgl1 are suggested to be novel targets for radiation-induced lung fibrosis.

**AMINO ACID SEQUENCE:** Leu 23 - Ile 312

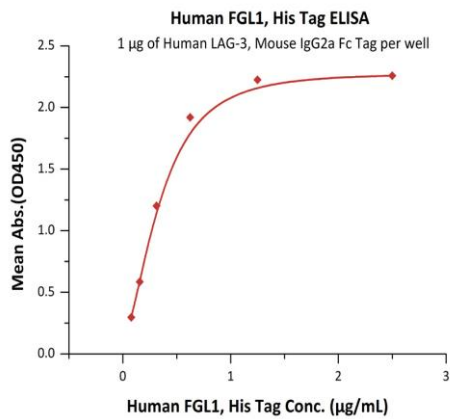


Loaded Human LAG-3, Fc Tag on Protein A Biosensor, can bind Human FGL1, His Tag with an affinity constant of 13.6 nM as determined in BLI assay

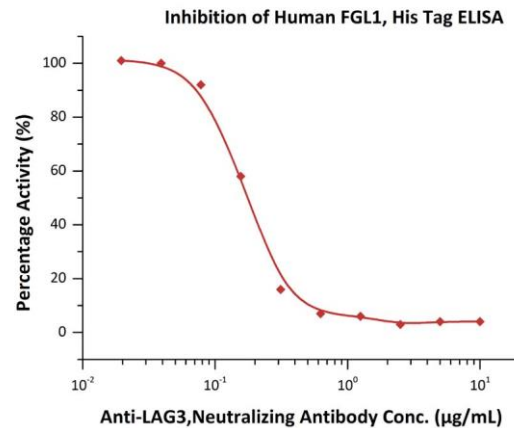


FACS assay shows that Human FGL1, His Tag can bind to 293T cells overexpressing human LAG3. The concentration of Human FGL1 is 20 µg/mL

**A**

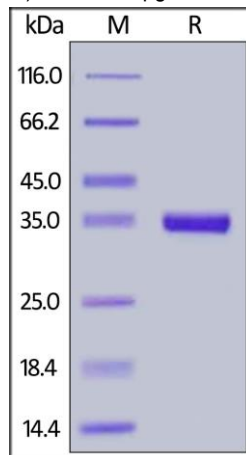


**B**



**Fig. A.** Immobilized Human LAG-3, Mouse IgG2a Fc Tag at 10 µg/mL (100 µL/well) can bind Human FGL1, His Tag with a linear range of 0.078-0.625 µg/mL

**Fig. B.** Serial dilutions of Anti-LAG3, Neutralizing Antibody were added into Human FGL1, His Tag: Biotinylated Human LAG-3 binding reactions. The half maximal inhibitory concentration (IC50) is 0.16695 µg/mL



Human FGL1, His Tag on SDS-PAGE under reducing (R) condition.

**RELATED PRODUCTS:**

- Human CellExp™ FGL1, Fc Tag, Human Recombinant (P1420)
- Human CellExp™ FGL1, Fc Tag, Mouse Recombinant (P1415)
- Human CellExp™ FGL1, Fc Tag, Cynomolgus / Rhesus macaque recombinant (P1418)

**FOR RESEARCH USE ONLY! Not to be used on humans.**