**APD022Hu61 100μg**
**Active Fibrinogen Like Protein 1 (FGL1)**
**Organism Species: *Homo sapiens* (Human)**
***Instruction manual***

FOR RESEARCH USE ONLY
NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

13th Edition (Revised in Aug, 2023)

## [ PROPERTIES ]

**Source:** Eukaryotic expression.
**Host:** 293F cell
**Residues:** Leu23~Ile312
**Tags:** N-terminal His-tag
**Purity:** >95%
**Endotoxin Level:** <1.0EU per 1μg (determined by the LAL method).
**Buffer Formulation:** PBS, pH7.4, containing 5% Trehalose .
**Original Concentration:** 200μg/mL
**Applications:** Cell culture; Activity Assays.
(May be suitable for use in other assays to be determined by the end user.)
**Predicted isoelectric point:** 5.4
**Predicted Molecular Mass:** 35.6kDa
**Accurate Molecular Mass:** 36kDa as determined by SDS-PAGE reducing conditions.

## [ USAGE ]

Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

## [ STORAGE AND STABILITY ]

**Storage:** Avoid repeated freeze/thaw cycles.
Store at 2-8ºC for one month.
Aliquot and store at -80ºC for 12 months.
**Stability Test:** The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the

protein at 37ºC for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

## [ SEQUENCE ]

LEDCAQEQMRLRAQVRLLETRVKQQQVKIKQLLQENEVQFLDKGDENTVIDLGSKRQYADCSEIFNDGYKLSGFYKIKPLQSPAEFSVY
CDMSDGGGWTVIQRRSDGSENFNRGWKDYENGFGNFVQKHGEYWLGNKNLHFLTTQEDYTLKIDLADFEKNSRYAQYKNFKVGDEKNFY
ELNIGEYSGTAGDSLAGNFHPEVQWWASHQRMKFSTWDRDHDNYEGNCAEEDQSGWWFNRCHSANLNGVYYSGPYTAKTDNGIVWYTWH
GWWYSLKSVVMKIRPNDFIPNVI

## [ ACTIVITY ]

Fibrinogen Like Protein 1 (FGL1), also known as fibrinogen-related protein 1 or HFREP-1, is a member of the fibrinogen family. FGL1 has multiple biological functions, which plays an important role in intercellular signaling, immune regulation, cell adhesion and angiogenesis. In addition, the expression of FGL1 protein is also up-regulated in tumor tissues, such as lung, prostate, melanoma, colorectal, breast cancer, and brain tumors, suggesting that it may play an important role in the development and progression of these diseases. Fibrinogen Alpha Chain (FGA) has been identified as an interactor of FGL1, thus a functional binding ELISA assay was conducted to detect the interaction of recombinant human FGL1 and recombinant mouse FGA. Briefly, biotin-linked FGL1 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 ul were then transferred to FGA-coated microtiter wells and incubated for 1h at 37℃. Wells were washed with PBST 3 times and incubation with Streptavidin-HRP for 30min, then wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37 ℃. Finally, add 50 μl stop solution to the wells and read at 450 nm immediately. The binding activity of recombinant human FGL1 and recombinant mouse FGA was shown in Figure 1, the EC50 for this effect is 0.07 ug/mL.

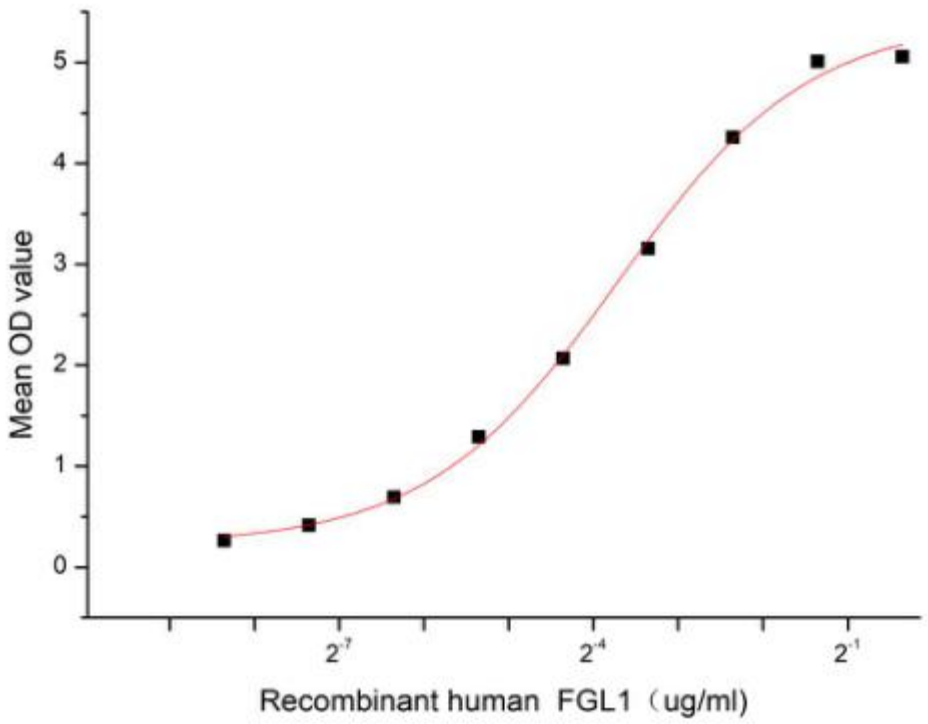


**Figure 1. The binding activity of recombinant human FGL1 and recombinant mouse FGA**

## [ IDENTIFICATION ]

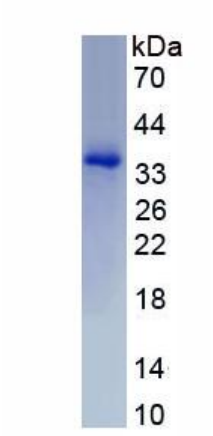


**Figure 2. SDS-PAGE**

**Sample: Active recombinant FGL1, Human**

## [ IMPORTANT NOTE ]

The kit is designed for research use only, we will not be responsible for any issue if the kit was used in clinical diagnostic or any other procedures.