

Basic Information

Product Name	Anti-Fibrinogen Alpha Chain/FGA Antibody	
Gene Name	FGA	
Source	Rabbit	
Isotype	IgG	
Species Reactivity	human	
Tested Application	WB, IHC, FCM, ELISA	
Contents	500 ug/ml antibody with PBS , 0.02% NaN3 , 1 mg BSA and 50% glycerol.	
Immunogen	E.coli-derived human Fibrinogen alpha chain/FGA recombinant protein (Position: E139-Q784).	
concentration	500 ug/ml	
Purification	Immunogen affinity purified.	
Observed MW	95KD	
Dilution Ratios	Western blot(WB): 1:500-2000 Immunohistochemistry in paraffin section (IHC): 1:50-400 Flow cytometry (FCM): 1-3 $\mu\text{g}/1 \times 10^6$ cells (ELISA): 1:100-1000 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.	

Storage

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

Background Information

Fibrinogen alpha chain is a protein that in humans is encoded by the FGA gene. This gene encodes the alpha subunit of the coagulation factor fibrinogen, which is a component of the blood clot. Following vascular injury, the encoded preproprotein is proteolytically processed by thrombin during the conversion of fibrinogen to fibrin. Mutations in this gene lead to several disorders, including dysfibrinogenemia, hypofibrinogenemia, afibrinogenemia and renal amyloidosis. Alternative splicing results in multiple transcript variants, at least one of which encodes an isoform that undergoes proteolytic processing.

Selected Validation Data

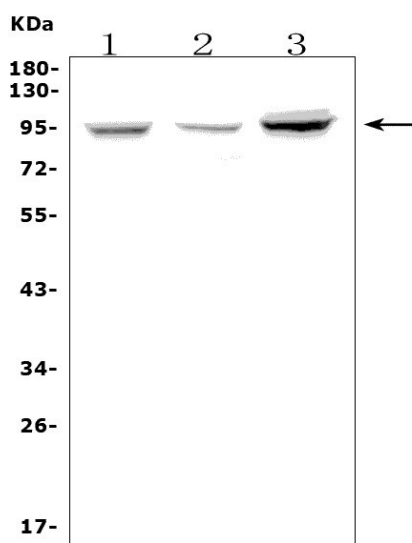


Figure 1. Western blot analysis of anti-FGA antibody (A00816-3). The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: human T-47D whole cell lysates, Lane 2: human Caco-2 whole cell lysates, Lane 3: human SW620 whole cell lysates. Use rabbit anti-FGA 1:1000, probed with a goat anti-rabbit IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002). A specific band was detected for FGA at approximately 95 kDa. The expected band size for FGA is at 95 kDa.

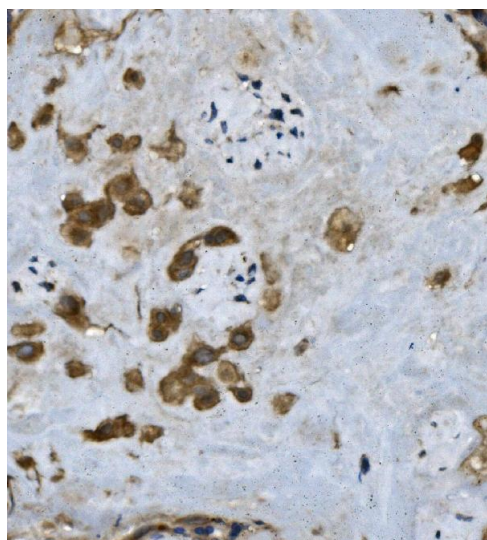


Figure 2. IHC analysis of anti-FGA antibody (A00816-3) detected in paraffin-embedded section of human placenta tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.

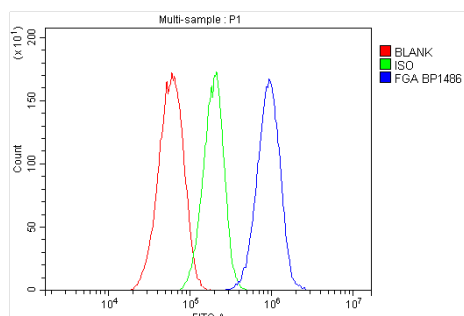


Figure 3. Flow cytometry analysis of HepG2 cells (1x10⁶) conjugated with DyLight488. Conjugated goat anti-rabbit IgG (blue) was used as secondary antibody. Isotype control antibody (Green line) was rabbit IgG DyLight488. Unlabelled sample (Red line).