



Human insulin-like growth factors binding protein 1,IGFBP-1 ELISA Kit

Product Code	CSB-E04586h
Abbreviation	IGFBP1
Target Name	insulin-like growth factor binding protein 1
Uniprot No.	P08833
Alias	AFBP ELISA Kit; Alpha pregnancy associated endometrial globulin ELISA Kit; Amniotic fluid binding protein ELISA Kit; Binding protein 25 ELISA Kit; Binding protein 26 ELISA Kit; Binding protein 28 ELISA Kit; Growth hormone independent binding protein ELISA Kit; hIGFBP 1 ELISA Kit; hIGFBP1 ELISA Kit; IBP 1 ELISA Kit; IBP-1 ELISA Kit; IBP1 ELISA Kit; IBP1_HUMAN ELISA Kit; IGF binding protein 1 ELISA Kit; IGF BP25 ELISA Kit; IGF-binding protein 1 ELISA Kit; IGFBP 1 ELISA Kit; IGFBP-1 ELISA Kit; IGFBP1 ELISA Kit; Insulin like growth factor binding protein 1 ELISA Kit; Insulin-like growth factor-binding protein 1 ELISA Kit; Placental protein 12 ELISA Kit; PP 12 ELISA Kit; PP12 ELISA Kit
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Sample Types	serum, plasma, tissue homogenates
Detection Range	1.56 ng/mL-100 ng/mL
Sensitivity	0.39 ng/mL
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Signal Transduction
Gene Names	IGFBP1

Description

The product CSB-E04586h is a sandwich ELISA kit developed to measure concentrations of human IGFBP1 in serum, plasma, or tissue homogenates. This assay uses the sandwich enzyme immunoassay technique in combination with the enzyme-substrate chromogenic reaction to quantify the analyte in the sample. The color develops positively to the amount of IGFBP1 in samples. The color intensity is measured at 450 nm via a microplate reader.

IGFBP1 is produced dominantly in the liver, heart, and kidney. It binds to insulin-like growth factor (IGF) and regulates IGF actions in somatic growth, development, and aging. IGFBP-1 not only is an important determinant of IGF



activity but also enhances glucose uptake in peripheral tissues and decreases glucose output in the liver. It regulates cell proliferation, migration, and glucose metabolism by activating integrin-ILK/FAK/PTEN signaling through integrin receptors on the cell membrane. Low circulating levels of IGFBP1 are related to insulin resistance and predict the development of type 2 diabetes. Dysregulation of IGFBP1, as well as IGFs in serum and cervical secretions, induces metabolic disease and cardiovascular disease. Overexpression of IGFBP1 has been shown to improve impaired glucose tolerance.

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