HRP Conjugated Anti-Human IGFBP1 Antibody [PSH17-58] - Detector

HA723933H

Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	ELISA(Det), ELISA
Clone number:	PSH17-58

Description: Insulin-like growth factor-binding protein 1 (IBP-1) also known as placental protein 12 (PP12) is a protein that in humans is encoded by the IGFBP1 gene. This gene is a member of the Insulin-like growth factor-binding protein (IGFBP) family and encodes a protein with an IGFBP domain and a type-I thyroglobulin domain. The protein binds both insulin-like growth factors (IGFs) I and II and circulates in the plasma. Binding of this protein prolongs the half-life of the IGFs and alters their interaction with cell surface receptors. Alternate transcriptional splice variants, encoding different isoforms, have been characterized.

Conjugate: HRP-conjugated

Immunogen: Recombinant protein within Human IGFBP1 aa 26-259 (HA211115).

Positive control: Recombinant Human IGFBP1 protein (HA211115).

Subcellular location: Secreted.

Database links: SwissProt: P08833 Human

Recommended Dilutions:

ELISA(Det)
ELISA

Use at an assay dependent concentration. Can be paired for Sandwich ELISA with Rabbit monoclonal [PSH17-56] to Human IGFBP1 antibody (Capture) (HA723931) and Recombinant Human IGFBP1 protein (HA211115) as the standard. The reference range value is 390.25-6,250 pg/mL.
Use at an assay dependent concentration.

Storage Buffer: 1*PBS (pH7.4), 0.1% BSA, 40% Glycerol, 0.2% Proclean 950.

Storage Instruction: Shipped at 4℃. Store at +4℃ short term (1-2 weeks). Store at -20℃ long term.

Purity: Protein A affinity purified.

Images

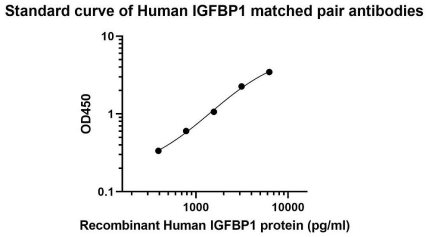


Fig1: Sandwich ELISA analysis of Human IGFBP1 matched pair antibodies

Capture: HA723931, Human IGFBP1 Rabbit mAb [PSH17-56]
Detector: HA723933, Human IGFBP1 Rabbit mAb [PSH17-58]

Elisa assay was performed by coating wells of a 96-well plate with 100 µl per well of capture antibody (HA723931) diluted in carbonate/bicarbonate buffer, at a concentration of 2ug/ml overnight at 4℃. Wells of the plate were washed, blocked with 150 µl 0.05% tween-20 1% BSA blocking buffer, and incubated with serial diluted Recombinant Human IGFBP1 protein (HA211115) starting from 6,250 pg/ml to 0 pg/ml and detect antibody (HA723932, HRP, 0.2 µg/ml) for 1 hour at 30℃ with shaking. Detection was performed using an Ultra TMB Substrate for 10 minutes at room temperature in the dark. The reaction was stopped with sulfuric acid and absorbances were read on a spectrophotometer at 450 nm.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Hivert MF et al. Placental IGFBP1 levels during early pregnancy and the risk of insulin resistance and gestational diabetes. Med. 2024 Jun
2. Cai G et al. IGFBP1 Sustains Cell Survival during Spatially-Confined Migration and Promotes Tumor Metastasis. Adv Sci (Weinh). 2023 Jul