

Anti-Human FGF-19 Antibody [PSH13-29] - BSA and Azide free (Capture)

HA725100



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	ELISA(Cap)
Clone number:	PSH13-29

Description: Fibroblast growth factor 19 is a protein that in humans is encoded by the FGF19 gene. It functions as a hormone, regulating bile acid synthesis, with effects on glucose and lipid metabolism. Reduced synthesis, and blood levels, may be a factor in chronic bile acid diarrhea and in certain metabolic disorders. The protein encoded by this gene is a member of the fibroblast growth factor (FGF) family. FGF family members possess broad mitogenic and cell survival activities, and are involved in a variety of biological processes including embryonic development cell growth, morphogenesis, tissue repair, tumor growth and invasion. This growth factor is a high affinity, heparin dependent ligand for FGFR4. Expression of this gene was detected only in fetal but not adult brain tissue. Synergistic interaction of the chick homolog and Wnt-8c has been shown to be required for initiation of inner ear development.

Immunogen: Recombinant protein within Human FGF-19 aa 25-216 (HA210981).

Positive control: Recombinant Human FGF-19 protein (HA210981).

Subcellular location: Secreted.

Database links: SwissProt: O95750 Human

Recommended Dilutions:

ELISA(Cap) Use at an assay dependent concentration. Can be paired for Sandwich ELISA with Rabbit monoclonal [PSH13-30] to Human FGF-19 antibody (Detector) (HA725101) and recombinant Human FGF-19 protein (HA210981) as the standard. The reference range value is 31.2-2,000 pg/mL.

Storage Buffer: PBS (pH7.4).

Storage Instruction: Store at +4℃ after thawing. Aliquot store at -20℃. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

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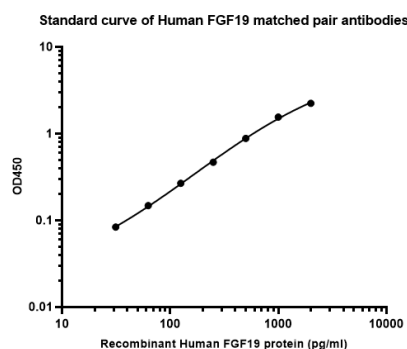
Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images

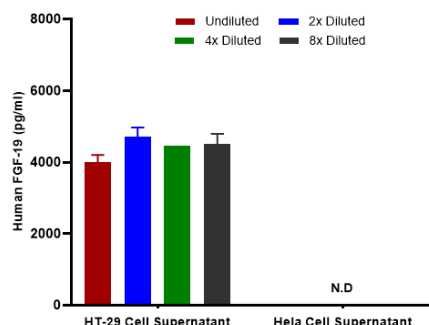
Fig1: Sandwich ELISA analysis of Human FGF-19 matched pair antibodies

Capture: HA725100, Human FGF-19 Rabbit mAb [PSH13-29]

Detector: HA725101, Human FGF-19 Rabbit mAb [PSH13-30]



Elisa assay was performed by coating wells of a 96-well plate with 100 μ l per well of capture antibody (HA725100) diluted in carbonate/bicarbonate buffer, at a concentration of 2 μ g/ml overnight at 4 $^{\circ}$ C. Wells of the plate were washed, blocked with 150 μ l 0.05% tween-20 1% BSA blocking buffer, and incubated with serial diluted Recombinant Human FGF-19 protein (HA210981) starting from 2,000 pg/ml to 0 pg/ml and detect antibody (HA725101, Biotin, 0.2 μ g/ml) for 1 hour at 30 $^{\circ}$ C with shaking. Then the plate was washed and incubated with 100 μ l per well of SA-HRP for 0.5 hour at 30 $^{\circ}$ C 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.

Fig2: Interpolated concentrations of native FGF-19 in human cell culture supernatant samples.

Capture: HA725100, Human FGF-19 Rabbit mAb [PSH13-29]

Detector: HA725101, Human FGF-19 Rabbit mAb [PSH13-30]

Interpolated concentration of native FGF-19 was measured in duplicate at different sample concentrations. Undiluted samples were 50% cell supernatant. The interpolated dilution factor corrected values were plotted (mean \pm SD, n=2). The mean FGF-19 concentration was determined to be 4,425 pg/mL in HT-29 cell supernatant. There was no detectable signal in Hela cell culture supernatant.

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

Background References

- Xie M et al. FGF19/FGFR4-mediated elevation of ETV4 facilitates hepatocellular carcinoma metastasis by upregulating PD-L1 and CCL2. J Hepatol. 2023 Jul
- Li C et al. FGF19-Induced Inflammatory CAF Promoted Neutrophil Extracellular Trap Formation in the Liver Metastasis of Colorectal Cancer. Adv Sci (Weinh). 2023 Aug

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