Anti-Albumin Antibody [1-G10]

EM1901-81



Product Type: Mouse monoclonal IgG1, primary antibodies

Species reactivity: Human

Applications: WB, FC, ELISA

Molecular Wt: 69 kDa
Clone number: 1-G10

Description: Serum albumin, the main protein of plasma, has a good binding capacity for water, Ca2+,

Na+, K+, fatty acids, hormones, bilirubin and drugs (Probable). Its main function is the regulation of the colloidal osmotic pressure of blood (Probable). Major zinc transporter in plasma, typically binds about 80% of all plasma zinc . Major calcium and magnesium transporter in plasma, binds approximately 45% of circulating calcium and magnesium in plasma (By similarity). Potentially has more than two calcium-binding sites and might additionally bind calcium in a non-specific manner (By similarity). The shared binding site between zinc and calcium at residue Asp-273 suggests a crosstalk between zinc and calcium transport in the blood (By similarity). The rank order of affinity is zinc > calcium > magnesium (By similarity). Binds to the bacterial siderophore enterobactin and inhibits enterobactin-mediated iron uptake of E.coli from ferric transferrin, and may thereby limit the utilization of iron and growth of enteric bacteria such as E.coli . Does not prevent iron

uptake by the bacterial siderophore aerobactin.

Immunogen: Native protein.

Positive control: Human plasma tissue lysates, HepG2.

Subcellular location: Secreted.

Database links: SwissProt: P02768 Human

Recommended Dilutions:

WB 1:10,000-1:50,000

FC 1:50-1:100

ELISA 1: 5,000-1:20,000

Storage Buffer: 1*PBS (pH7.4), 0.2% BSA, 50% Glycerol. Preservative: 0.05% Sodium Azide.

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

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.



Technical:0086-571-89986345

Service mail:support@huabio.cn



Images

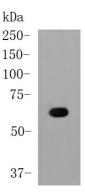


Fig1: Western blot analysis of Albumin on human plasma sample. Proteins were transferred to a PVDF membrane and blocked with 5% BSA in PBS for 1 hour at room temperature. The primary antibody (EM1901-81, 1/50000) was used in 5% BSA at room temperature for 2 hours. Goat Anti-Mouse IgG - HRP Secondary Antibody (HA1006) at 1:5,000 dilution was used for 1 hour at room temperature.

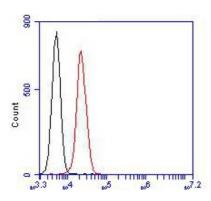


Fig2: Flow cytometric analysis of Albumin was done on HepG2 cells. The cells were fixed, permeabilized and stained with the primary antibody (EM1901-81, 1/100) (red). After incubation of the primary antibody at room temperature for an hour, the cells were stained with Alexa FluorTM488 Goat anti-Mouse IgG Secondary antibody at 1/500 dilution for 30 minutes.Unlabelled sample was used as a control (cells without incubation with primary antibody; black).

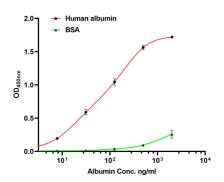


Fig3: Albumin Antibody (EM1901-81) in indirect ELISA.

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

Background References

1. Konopka K.et.al.Effect of serum albumin on siderophore-mediated utilization of transferrin iron.Biochemistry 23:2122-2127(1984).