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Human Serum Albumin Antibody

Purified Mouse Monoclonal Antibody (Mab)
Catalog # AP52692

Product Information

Application	WB
Primary Accession	P02768
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	69367

Additional Information

Gene ID	213
Other Names	ALB;ALBU_HUMAN;Albumin (32 AA);Albumin (AA 34);Albumin;Analbuminemia;Bisalbuminemia;Cell growth inhibiting protein 42;DKFZp779N1935;Dysalbuminemic hyperthyroxinemia;Growth inhibiting protein 20;HSA;Hyperthyroxinemia dysalbuminemic;PRO0883;PRO0903;PRO1341; PRO2044;PRO2619;Serum albumin.
Dilution	WB~~1:1000
Format	Purified mouse monoclonal in PBS(pH 7.4) containing with 0.09% (W/V) sodium azide and 50% glycerol.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

Name	ALB
Function	Binds water, Ca(2+), 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 (PubMed:19021548). 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 (PubMed:6234017). Does not prevent iron uptake by the bacterial siderophore aerobactin (PubMed:6234017).

Cellular Location Secreted.

Tissue Location Plasma.

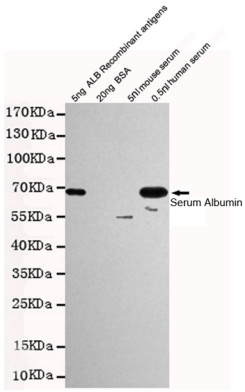
Background

Serum albumin, the main protein of plasma, has a good binding capacity for water, Ca(2+), Na(+), K(+), fatty acids, hormones, bilirubin and drugs. Its main function is the regulation of the colloidal osmotic pressure of blood. Major zinc transporter in plasma, typically binds about 80% of all plasma zinc.

References

Lawn R.M.,et al.Nucleic Acids Res. 9:6103-6114(1981).
Dugaiczyk A.,et al.Proc. Natl. Acad. Sci. U.S.A. 79:71-75(1982).
Minghetti P.P.,et al.J. Biol. Chem. 261:6747-6757(1986).
Yang S.,et al.Submitted (SEP-1999) to the EMBL/GenBank/DDBJ databases.
Huang M.C.,et al.Submitted (AUG-2002) to the EMBL/GenBank/DDBJ databases.

Images



Western blot detection of Human Serum Albumin in 0.5nl human serum and 5ng ALB Recombinant antigens cell lysates using Human Serum Albumin mouse mAb (1:1000 diluted).Predicted band size:67KDa.Observed band size:67KDa.