

Mouse Anti-Fetuin A [H4]: MC0043, MC0043RTU7

Intended Use: For Research Use Only

Description: Fetuin A, also known as α -2-z-globulin or α -2-HS-glycoprotein (A2HS), is produced by liver and secreted to plasma, selectively concentrated in bone matrix. It is expressed in hepatocytes, monocyte/macrophages and in bone and is down-regulated during injury and inflammation. Fetuin preferentially binds to and carries calcium and barium ions in the blood, where it is thought to mediate serum calcium homeostasis and mineralization, and to potentially participate in the transport of bioactive molecules. It is synthesized as a precursor and processed to generate 2 chains that are held together by a disulfide bond. It is a systemically acting calcification inhibitor. Reduced level of fetuin A in serum is associated with increased cardiovascular mortality in dialysis patients. Fetuin A can inhibit insulin-induced tyrosine phosphorylation of the insulin receptor tyrosine kinase and insulin receptor substrate-1. Fetuin A deficient mice show high insulin sensitivity and high levels of serum fetuin A are associated with insulin resistance in humans.

Specifications

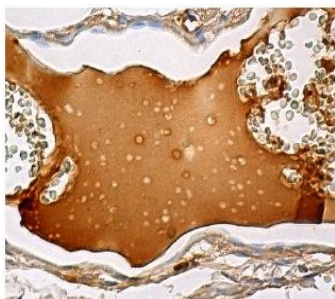
Clone:	H4
Source:	Mouse
Isotype:	IgG1k
Reactivity:	Human
Immunogen:	Human Fetuin A protein aa 68-367
Localization:	Secreted
Formulation:	Antibody in PBS pH7.4, containing BSA and \leq 0.09% sodium azide (NaN ₃)
Storage:	Store at 2°- 8°C
Applications:	IHC, ICC/IF, IP, WB
Package:	

Description	Catalog No.	Size
Fetuin A [H4] Concentrated	MC0043	1 ml
Fetuin A [H4] Prediluted	MC0043RTU7	7 ml

IHC Procedure*

Positive Control Tissue:	Placenta, blood vessel
Concentrated Dilution:	25-200
Pretreatment:	Tris EDTA pH9.0, 15 minutes Pressure Cooker or 30-60 minutes water bath at 95°-99°C
Incubation Time and Temp:	30-60 minutes @ RT
Detection:	Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human blood vessel stained with anti-Fetuin A using DAB

References:

1. Biosynthesis of the vitamin K-dependent matrix Gla protein (MGP) in chondrocytes: a fetuin-MGP protein complex is assembled in vesicles shed from normal but not from osteoarthritic chondrocytes. R Wallin, et al. Osteoarthritis Cartilage. Aug;18(8):1096-103, 2010.
2. Alpha2-Heremans-Schmid glycoprotein/fetuin-A is associated with insulin resistance and fat accumulation in the liver in humans. Norbert Stefan, et al. Diabetes Care. Apr;29(4):853-7, 2006.
3. The serum protein alpha 2-Heremans-Schmid glycoprotein/fetuin-A is a systemically acting inhibitor of ectopic calcification. Cora Schafer, et al. J Clin Invest. Aug;112(3):357-66, 2003.

Doc. 100-MC0043

Rev. A

Orders: customercare@medaysis.com Support: techsupport@medaysis.com Tel: 510-509-3153 www.medaysis.com

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