



Orders: 877-616-CELL (2355)
orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

Store at -20C
#5258

Fetuin A (F180) Antibody

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 45-50	Source/Isotype: Rabbit	UniProt ID: #P02765	Entrez-Gene Id: 197
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Product Usage Information

Application

Western Blotting
Immunoprecipitation

Dilution

1:1000
1:50

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

Fetuin A (F180) Antibody detects endogenous levels of total fetuin A protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Phe180 of human fetuin A protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background

Fetuin A is produced by liver and secreted to plasma, and selectively concentrated in bone matrix. 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 (1). Reduced level of fetuin A in serum is associated with increased cardiovascular mortality in dialysis patients (2,3). Fetuin A can inhibit insulin-induced tyrosine phosphorylation of the insulin receptor tyrosine kinase and insulin receptor substrate-1 (4). Fetuin A deficient mice show high insulin sensitivity and high levels of serum fetuin A are associated with insulin resistance in humans (5,6).

Background References

1. Schafer, C. et al. (2003) *J Clin Invest* 112, 357-66.
2. Westenfeld, R. et al. (2007) *Trends Cardiovasc Med* 17, 124-8.
3. Westenfeld, R. et al. (2009) *J Am Soc Nephrol* 20, 1264-74.
4. Auberger, P. et al. (1989) *Cell* 58, 631-40.
5. Mathews, S.T. et al. (2002) *Diabetes* 51, 2450-8.
6. Stefan, N. et al. (2006) *Diabetes Care* 29, 853-7.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human

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