

#5258 Store at -20C

## Fetuin A (F180) Antibody



**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

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB, IP	H	Endogenous	45-50	Rabbit	#P02765	197

### 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

**WB:** Western Blotting **IP:** Immunoprecipitation

### Cross-Reactivity Key

**H:** human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster  
**X:** Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse  
**GP:** Guinea Pig **Rab:** rabbit **All:** all species expected

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