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Anti-Adiponectin Rabbit mAb [94D72]

Catalog No.: A52003

Basic Information

Catalog No. (Cat.No.)	A52003
Host species	Rabbit
Reactivity	Human,Mouse,Rat
Applications	WB,IHC,IP,IF,ELISA
Synonyms	Adiponectin,ACDC,ADPN,ACRP30,ADIPO,GBP28,ApM-1,ADIPQTL1

Product Information

Target	Adiponectin
Molecular Weight(Calculated)	26 kDa
Molecular Weight(Observed)	30 kDa
Isotype	IgG,Kappa
Conjugation	NA
Concentration	0.2 mg/ml
Clonality	Monoclonal
Clone No.	94D72
RRID	NA
Storage buffer	50% Glycerol, 0.05% BSA and 0.05% preservative in PBS (pH 7.2-7.4)
Storage	Stored at -20°C for 1 year. Avoid repeated freeze / thaw cycles.
Shipped at conditions	Frozen
Form	Liquid

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Product Usage Information

Application	Dilution
WB	1:1000-1:5000
IHC	1:1000-1:4000
IP	1:50-1:200
IF	1:200-1:1000
ELISA	1:5000-1:20000

Target Information

Protein Name	Adiponectin, C1Q and collagen domain-containing
Gene Name	*ADIPOQ*
Domain	NA
Background	Adiponectin is a secreted adipokine belonging to the C1q/collagen superfamily and is encoded by the ADIPOQ gene. With a monomer molecular weight of 26–30 kDa, it serves as a core functional protein regulating systemic glycolipid metabolic homeostasis. Predominantly synthesized and abundantly secreted into the bloodstream by white adipose tissue, adiponectin exists as trimers, hexamers, and highly active high-molecular-weight multimers, among which high-molecular-weight oligomers are the primary functional form. By binding to AdipoR1/AdipoR2 receptors, adiponectin activates the AMPK signaling pathway, promoting fatty acid oxidation, inhibiting hepatic gluconeogenesis, and improving insulin sensitivity. It also exerts potent anti-inflammatory, anti-atherosclerotic, and tissue-protective effects. Contrary to most adipokines, circulating adiponectin levels are significantly downregulated in obesity, insulin resistance, type 2 diabetes, and metabolic syndrome, making it a critical diagnostic biomarker and research target for metabolic disorders.