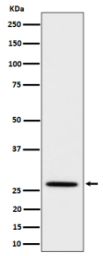
Adipoq Antibody / Adiponectin [clone 30A64] (FY12735)

Catalog No.	Formulation	Size
FY12735	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA	100 ul

Recombinant RABBIT MONOCLONAL

Bulk quote request

Availability	2-3 weeks
Species Reactivity	Mouse
Format	Liquid
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	30A64
Purity	Affinity-chromatography
Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
UniProt	Q60994
Applications	Western Blot : 1:500-1:2000 Immunohistochemistry : 1:50-1:200 Immunocytochemistry/Immunofluorescence : 1:50-1:200
Limitations	This Adipoq antibody is available for research use only.



Western blot analysis of Adiponectin expression in mouse kidney cell lysate using Adipoq antibody. Predicted molecular weight ~27 kDa.

Description

Adipoq antibody detects adiponectin, a hormone encoded by the ADIPOQ gene. Adiponectin is also known as adipocyte complement related protein of 30 kDa and Acrp30. It is secreted by adipocytes and circulates in serum in multiple oligomeric forms, including trimeric, hexameric, and high molecular weight complexes. Adiponectin binds receptors

ADIPOR1 and ADIPOR2, activating AMPK and PPAR signaling pathways to regulate glucose metabolism, lipid catabolism, and insulin sensitivity.

Adipoq antibody is widely applied in endocrinology, metabolism research, and cardiovascular biology. Adiponectin improves insulin sensitivity and has anti inflammatory and anti atherogenic properties. Reduced adiponectin levels are associated with obesity, type 2 diabetes, metabolic syndrome, and coronary artery disease. By detecting adiponectin, researchers can evaluate how adipose tissue hormones regulate systemic metabolism and disease risk.

ELISA quantifies circulating adiponectin in serum and plasma, while western blotting detects its oligomeric forms. Immunohistochemistry maps adiponectin expression in adipose tissue and other metabolic organs. These applications provide powerful tools for exploring adipokine biology.

Adiponectin has protective roles in vascular biology, reducing endothelial activation and inhibiting smooth muscle proliferation. It also influences inflammation by modulating cytokine production and macrophage polarization. Dysregulation of adiponectin contributes to insulin resistance, atherosclerosis, and nonalcoholic fatty liver disease. By applying Adipoq antibody, scientists can study mechanisms linking adipose tissue function to systemic metabolism and cardiovascular health.

Adipoq antibody from NSJ Bioreagents provides dependable specificity for detecting adiponectin. Its proven performance ensures accurate analysis of adipokine function in health and disease.

Application Notes

Optimal dilution of the Adipoq antibody should be determined by the researcher.

Immunogen

A synthesized peptide derived from human Adiponectin was used as the immunogen for the Adipoq antibody.

Storage

Store the Adipoq antibody at -20oC.