

DESCRIPTION

Species Reactivity	Rat
Specificity	Detects rat Adiponectin/Acrp30 in direct ELISAs and Western blots. In Western blots, approximately 45% cross-reactivity with recombinant mouse Adiponectin is observed and 35% cross-reactivity with recombinant human Adiponectin is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant rat Adiponectin/Acrp30 Ile19-Asn244 Accession # NP_653345
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

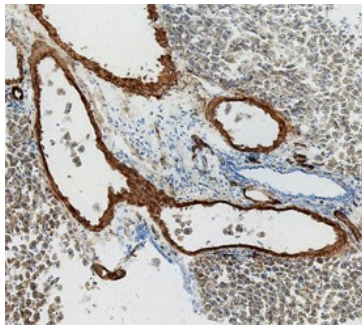
APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Western Blot	0.1 µg/mL	Recombinant Rat Adiponectin/Acrp30
Immunocytochemistry	5-15 µg/mL	See Below
Immunohistochemistry	5-15 µg/mL	See Below

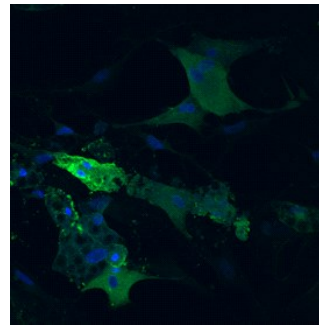
DATA

Immunohistochemistry



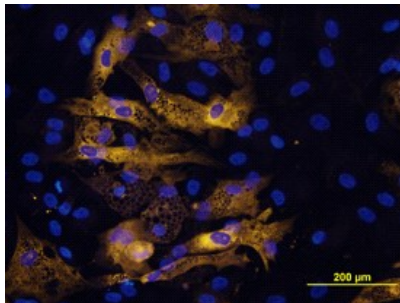
Adiponectin/Acrp30 in Rat Liver. Adiponectin/Acrp30 was detected in perfusion fixed frozen sections of rat liver using Rat Adiponectin/Acrp30 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3100) at 5 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Goat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). View our protocol for [Chromogenic IHC Staining of Frozen Tissue Sections](#).

Immunocytochemistry



Adiponectin/Acrp30 in Rat Adipocytes. Adiponectin/Adipocyte complement-related protein of 30 kDa (ACRP-30) was detected in rat adipocytes using Rat Adiponectin/Acrp30 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3100) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Goat IgG Secondary Antibody (yellow; Catalog # NL001) and counterstained with DAPI (blue). View our protocol for [Fluorescent ICC Staining of Cells on Coverslips](#).

Immunocytochemistry



Adiponectin/Acrp30 in Mouse Adipocytes. Adiponectin/Acrp30 was detected in immersion fixed mouse mesenchymal stem cells differentiated into adipocytes using Rat Adiponectin/Acrp30 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3100) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Goat IgG Secondary Antibody (yellow; Catalog # NL001) and counterstained with DAPI (blue). View our protocol for [Fluorescent ICC Staining of Cells on Coverslips](#).

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Adiponectin, also known as Adipocyte complement-related protein of 30 kDa (Acrp30), is a secreted adipose tissue-specific protein. It is an anti-atherogenic, anti-diabetic and anti-inflammatory hormone that plays important roles in the regulation of lipid and glucose metabolism. Rat Adiponectin/Acrp30 shares 91% and 83% amino acid sequence homology with mouse and human Adiponectin/Acrp30, respectively.