Datasheet for 600-401-AP9

CTRP3 Antibody

Overview

Description:	Anti-CTRP3 (RABBIT) Antibody - 600-401-AP9
Item No.:	600-401-AP9
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse
Host Species:	Rabbit

Product Details

Background:	Adipose tissue of an organism plays a major role in regulating physiologic and pathologic processes such as metabolism and immunity by producing and secreting a variety of bioactive molecules termed adipokines. One highly conserved family of adipokines is adiponectin/ACRP30 and its structural and functional paralogs, the C1q/tumor necrosis factor-alpha-related proteins (CTRPs) 1-7. Unlike adiponectin, which is expressed exclusively by differentiated adipocytes, the CTRPs are expressed in a wide variety of tissues. An analysis of the crystal structure of adiponectin revealed a structural and evolutionary link between TNF and C1q-containing proteins, suggesting that these proteins arose from a common ancestral innate immunity gene. Multiple isoforms of human CTRP3 have been reported. It has been suggested that CTRP3 may play a role in skeletal development.
Synonyms:	CTRP3 Antibody, CORS, CORCS, CTRP3, CORS26, C1ATNF3, CORS-26, UNQ753/PRO1484, Complement C1q tumor necrosis factor-related protein 3, Collagenous repeat-containing sequence 26 kDa protein
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	C1QTNF3
Reactivity:	Human, Mouse

Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-CTRP3 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 16 amino acid synthetic peptide from near the internal region of human CTRP3.
Purity/Specificity:	Anti-CTRP3 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. These proteins are often highly modified post-translationally and migrate in SDS-PAGE at positions other than their predicted size.
Relevant Links:	• UniProtKB - Q9BXJ4 • GeneID - 114899 • NCBI - NP_852100

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-CTRP3 Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 27 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000
IF:	10 µg/mL
IHC:	2 µg/mL
WB:	1 µg/mL

Formulation

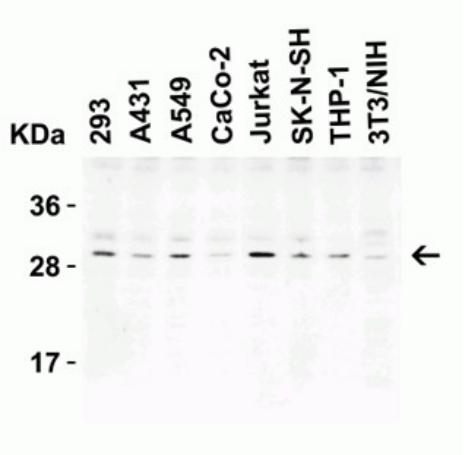
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

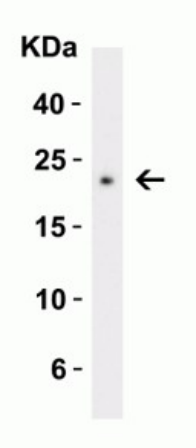
Shipping Condition:	Dry Ice

Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

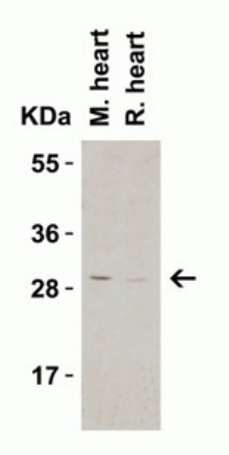
Images



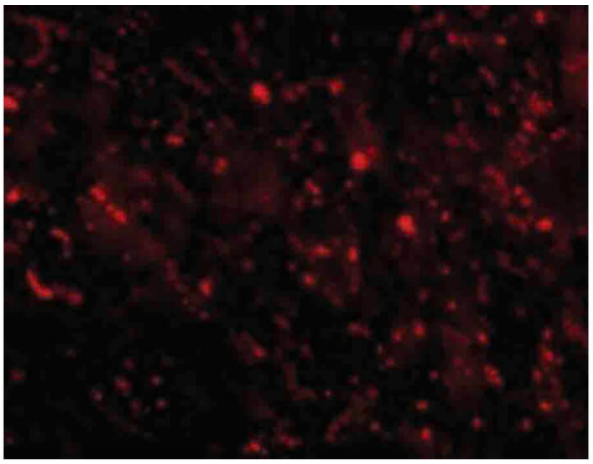
Western Blot
Western Blot Validation. Loading: 15 µg of Human and Mouse Cell Line lysates per lane. Antibodies: CTRP3, (1 µg/mL), 1h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



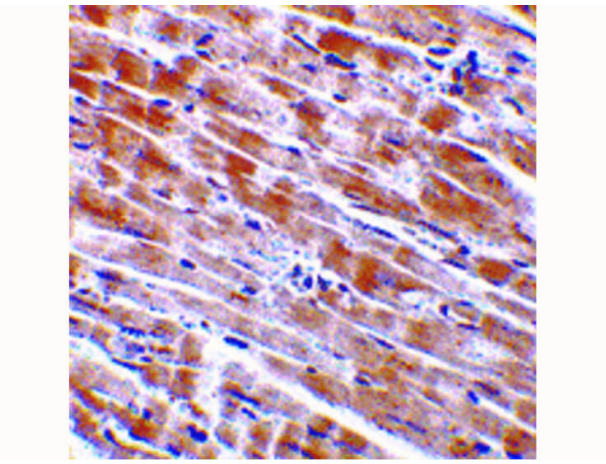
Western Blot
Western Blot Validation with Recombinant Protein. Loading: 30 ng of human CTRP3 recombinant protein per lane. Antibodies: CTRP3, (2 µg/mL), 1h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



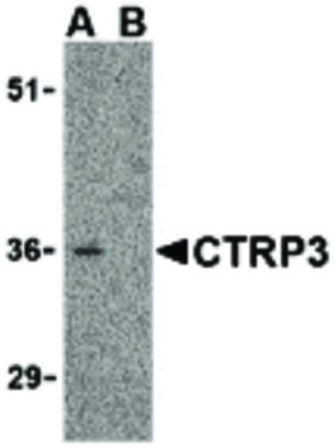
Western Blot
Western Blot Validation. Loading: 15 µg of mouse and rat tissue lysates per lane. Antibodies: CTRP3, (1 µg/mL), 1h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



Immunofluorescence Microscopy
Immunofluorescence Microscopy of CTRP3 antibody. Cell Type: mouse heart cells. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: CTRP3 antibody at 10 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: CTRP3 is secreted. Staining: CTRP3 as red fluorescent signal.



Immunohistochemistry
Immunohistochemistry of CTRP3 antibody. Tissue: mouse heart tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: CTRP3 antibody at 2 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: CTRP3 is secreted. Staining: CTRP3 is stained with hematoxylin purple nuclear counterstain.



Western Blot
Western Blot of CTRP3 antibody in mouse heart cell lysate.
Lane A: CTRP3 antibody in the absence of blocking peptide.
Lane B: CTRP3 antibody in the presence of blocking peptide.
Load: 35 µg per lane. Primary antibody: CTRP3 antibody at 1 µg/mL for overnight at 4°C. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C.
Predicted/Observed size: 27 kDa, 36 kDa for CTRP3. Other band(s): CTRP3 splice variants and isoforms.

Disclaimer

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