

# Product Datasheet

## CTRP9/C1qTNF9 Antibody - BSA Free NBP2-46834-25ul

Unit Size: 25ul

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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### Publications: 6

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**NBP2-46834-25ul**

CTRP9/C1qTNF9 Antibody - BSA Free

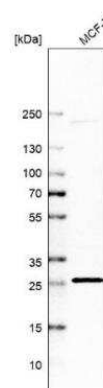
Product Information	
Unit Size	25ul
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol

Product Description	
Description	Novus Biologicals Rabbit CTRP9/C1qTNF9 Antibody - BSA Free (NBP2-46834) is a polyclonal antibody validated for use in IHC and WB. Anti-CTRP9/C1qTNF9 Antibody: Cited in 6 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	338872
Gene Symbol	C1QTNF9
Species	Human, Mouse
Reactivity Notes	Mouse reactivity reported in the scientific literature (PMID: 30060752).
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: DEMWLQVTGGERFNGLFADDDTTTF

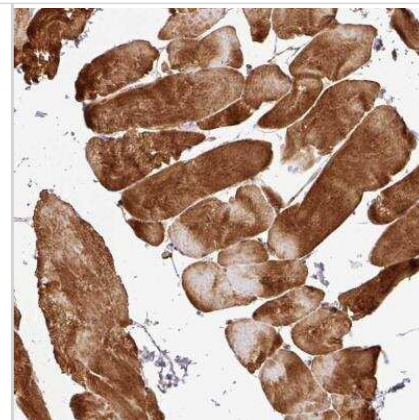
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunohistochemistry
Recommended Dilutions	Western Blot 0.04 - 0.4 ug/ml, Immunohistochemistry 1:200 - 1:500, Immunohistochemistry-Paraffin 1:200 - 1:500
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended.

**Images**

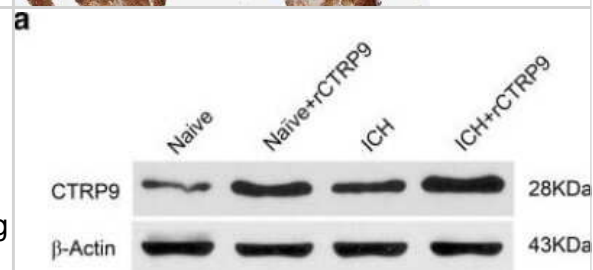
Western Blot: CTRP9/C1qTNF9 Antibody [NBP2-46834] - Analysis in human cell line MCF-7.



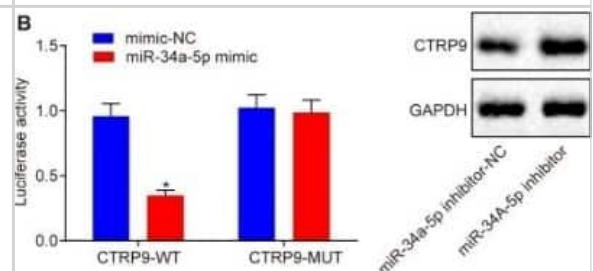
Immunohistochemistry-Paraffin: CTRP9/C1qTNF9 Antibody [NBP2-46834] - Staining of human skeletal muscle shows strong cytoplasmic positivity in myocytes.



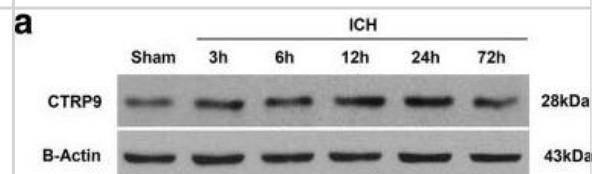
Western Blot: CTRP9/C1qTNF9 Antibody [NBP2-46834] - Brain expression of CTRP9/C1qTNF9 and neurological function evaluation after nasal administration of rCTRP9/C1qTNF9 at 24 h post-ICH. Representative western blot images and quantitative analyses of CTRP9/C1qTNF9. Nasal administration of rCTRP9/C1qTNF9 increased the expression level of CTRP9/C1qTNF9 in naive mice and ICH mice at 24 h post-ICH. Image collected and cropped by CiteAb from the following publication (<https://jneuroinflammation.biomedcentral.com/articles/10.1186/s12974-018-1256-8>), licensed under a CC-BY license.



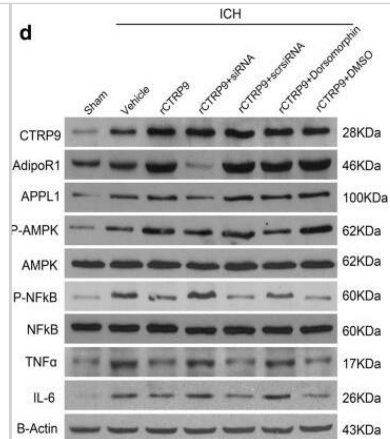
Western Blot: CTRP9/C1qTNF9 Antibody [NBP2-46834] - CTRP9/C1qTNF9 is a target gene of miR-34a-5p. Luciferase activity detected using the dual-luciferase reporter gene assay. \* $p < 0.05$  vs. the mimic-NC group. Image collected and cropped by CiteAb from the following publication (<https://www.frontiersin.org/article/10.3389/fphys.2019.01445/full>), licensed under a CC-BY license.



Western Blot: CTRP9/C1qTNF9 Antibody [NBP2-46834] - Expression of C1q/TNF-related protein 9 (CTRP9) & adiponectin receptor 1 (AdipoR1) after intracerebral hemorrhage (ICH). **a** Representative western blot images & quantitative analyses of CTRP9 time course after ICH. **b** Representative western blot images & quantitative analyses of AdipoR1 time course after ICH. Values are expressed as mean  $\pm$  SD. \* $p < 0.05$ , \*\* $p < 0.01$  vs. sham group.  $N = 6$ . **c** Double immunofluorescence staining for AdipoR1 (red) in microglia (Iba-1, green), neurons (NeuN, green), & astrocytes (GFAP, green) in right basal cortex 24 h after ICH. Scale bar = 50  $\mu$ m.  $N = 2$ . DAPI, 4',6-diamidino-2-phenylindole; Iba-1, ionized calcium binding adaptor molecule-1; NeuN, neuronal nuclear; GFAP, glial fibrillary acidic protein Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/30060752>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Western Blot: CTRP9/C1qTNF9 Antibody [NBP2-46834] - Knockdown of AdipoR1 & p-AMPK abolished improvement in neurological function & anti-inflammatory effects of rCTRP9 at 24 h post-ICH. a Modified Garcia test, b forelimb placement test, c corner turn test, & d representative western blot images & quantitative analyses of CTRP9, AdipoR1, APPL1, p-AMPK/AMPK, p-NFκB/NFκB, TNF-α, & IL-6 at 24 h post-ICH. Values are expressed as mean ± SD. \*p < 0.05, \*\*p < 0.01 vs. sham group; #p < 0.05, ##p < 0.01 vs. ICH + vehicle group; &p < 0.05 vs. rCTRP9 + Scr siRNA, & @p < 0.05 vs. rCTRP9 + DMSO group. Scr, scramble; siRNA, small interfering RNA. N = 6 Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/30060752>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



## Publications

Guan H, Xu H, Yan B et al. CTRP9: An Anti-Atherosclerotic Factor in ApoE Knockout Mice through Oxidative Stress Inhibition *Front Biosci (Landmark Ed)* 2024-09-30 [PMID: 39344333]

Guan H, Wang L, Geng Z et al. CTRP9 Promotes Brown Adipose Tissue Lipolysis in Mice Fed a High-Fat Diet *Front Biosci (Landmark Ed)* 2024-06-28 [PMID: 38940054]

Lee SM, Lee JW, Kim I et al. Angiogenic adipokine C1q-TNF-related protein 9 ameliorates myocardial infarction via histone deacetylase 7-mediated MEF2 activation *Science advances* 2022-12-02 [PMID: 36459558] (IHC-P, Mouse)

Weng CF, Wu CF, Kao SH et al. Down-Regulation of miR-34a-5p Potentiates Protective Effect of Adipose-Derived Mesenchymal Stem Cells Against Ischemic Myocardial Infarction by Stimulating the Expression of C1q/Tumor Necrosis Factor-Related Protein-9 *Front Physiol* 2019-12-17 [PMID: 31920683] (WB, Mouse)

Zhao L, Zhang JH, Sherchan P et al. Administration of rCTRP9 Attenuates Neuronal Apoptosis Through AdipoR1/PI3K/Akt Signaling Pathway after ICH in Mice. *Cell Transplant* 2019-01-14 [PMID: 30642187] (WB, Mouse)

Zhao L, Chen S, Sherchan P et al. Recombinant CTRP9 administration attenuates neuroinflammation via activating adiponectin receptor 1 after intracerebral hemorrhage in mice *J Neuroinflammation* 2018-07-30 [PMID: 30060752] (WB, Mouse)



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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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