



**Catalog Number** GTX110520 **Package:**25 µl, 100 µl

[Reference](#) (2)

**Product Name** TNF alpha antibody

**Full Name** tumor necrosis factor

**Synonyms** DIF antibody, TNF-alpha antibody, TNFA antibody, TNFSF2 antibody, TNF antibody, TNF, monocyte-derived antibody, TNF, macrophage-derived antibody, APC1 protein antibody, cachectin antibody, tumor necrosis factor antibody, tumor necrosis factor-alpha antibody, tumor necrosis factor alpha antibody, TNF-a antibody, tumor necrosis factor ligand superfamily member 2 antibody, TNF superfamily, member 2 antibody

**Product Description** Rabbit Polyclonal antibody to TNF alpha (tumor necrosis factor)

**Background** This gene encodes a multifunctional proinflammatory cytokine that belongs to the tumor necrosis factor (TNF) superfamily. This cytokine is mainly secreted by macrophages. It can bind to, and thus functions through its receptors TNFRSF1A/TNFR1 and TNFRSF1B/TNFR. This cytokine is involved in the regulation of a wide spectrum of biological processes including cell proliferation, differentiation, apoptosis, lipid metabolism, and coagulation. This cytokine has been implicated in a variety of diseases, including autoimmune diseases, insulin resistance, and cancer. Knockout studies in mice also suggested the neuroprotective function of this cytokine. [provided by RefSeq]

**Host** Rabbit

**Clonality** Polyclonal

**Isotype** IgG

**Immunogen** Full length human TNF alpha Recombinant protein.

**Antigen Species** Human

**Species Reactivity** Human, Mouse, Rat

**Predicted Cross Reactivity species** Dog, Cat, Pig, Rabbit, Rhesus Monkey, Chimpanzee, Bovine, Guinea pig

**Predict Reactivity Note** Dog (90%), Cat (89%), Pig (86%), Rabbit (80%), Rhesus Monkey (96%), Chimpanzee (99%), Bovine (80%), Guinea pig (80%)

**Applications** ICC/IF, IHC-P, WB

**Application Note**

	Suggested dilution	Reference
ICC/IF	1:100-1:1000*	
IHC (Formalin-fixed paraffin-embedded sections)	1:100-1:1000*	
Western blot	1:500-1:3000*	

Not tested in other applications.

\*Optimal dilutions/concentrations should be determined by the researcher.

**Positive Controls** Raji , NCH-H929 , C8D30 , PC-12 , Rat-2 , Raw264.7 cells treated 1ug/ml LPS (recovery culture medium, 10% FBS) (treated LPS 4hr)

**Predicted Target Size** 26 kDa

**Cellular Localization** Cell membrane; Single-pass type II membrane protein , Tumor necrosis factor , soluble form: Secreted

**Conjugation** Unconjugated

**Form Supplied** Liquid

**Purification** Purified by antigen-affinity chromatography.

**Concentration** 1 mg/ml (Please refer to the vial label for the specific concentration)

**Storage Buffer** 1XPBS, 20% Glycerol (pH7). 0.01% Thimerosal was added as a preservative.

**Storage Instruction** Keep as concentrated solution. Aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

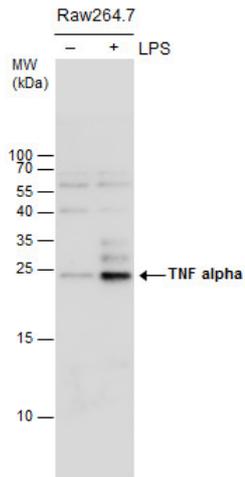
**Notes** For *In vitro* laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human

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ResearchArea [Cancer](#) > [Apoptosis](#) > [Anti-apoptosis](#)  
[Cancer](#) > [Apoptosis](#) > [Induction](#) > [Death domain receptors](#)  
[Cancer](#) > [Apoptosis](#) > [Induction](#) > [Extracellular signals](#)

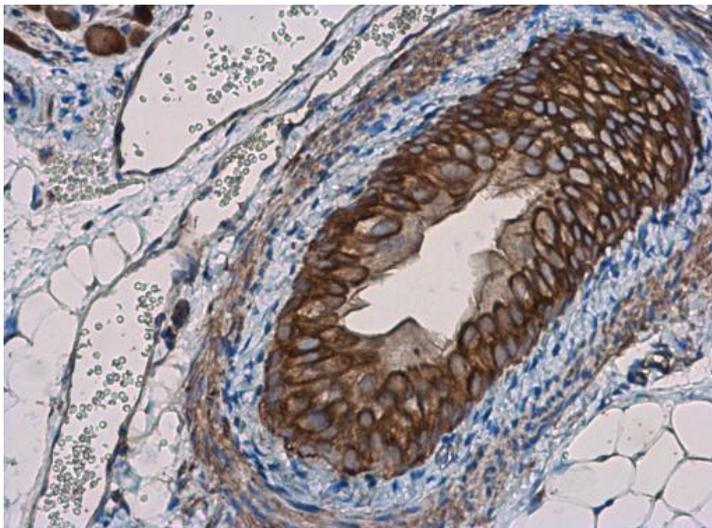
#### Application Reference

1. Lee AS (2014) *Cardiovasc Diabetol* 64
2. Fang S (2016) *Neuromolecular Med*



#### GTX110520 WB Image

TNF alpha antibody detects TNF alpha protein by western blot analysis. Un-treated (-) and treated (+, 1µg/ml LPS treatment for 4hr) Raw264.7 whole cell extracts (30 µg) were separated by 15% SDS-PAGE, and the membrane was blotted with TNF alpha antibody (GTX110520) diluted at 1:500.

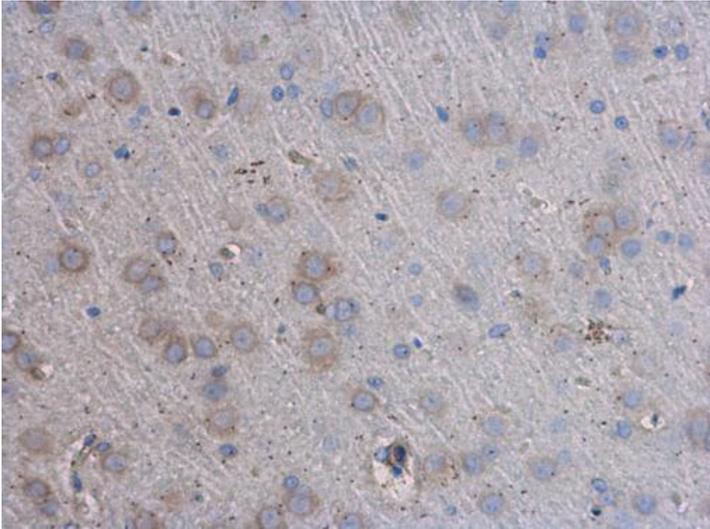


**GTX110520 IHC-P Image**

TNF alpha antibody detects TNF alpha protein at cell membrane in mouse prostate by immunohistochemical analysis.

Sample: Paraffin-embedded mouse prostate.

TNF alpha antibody (GTX110520) diluted at 1:400.

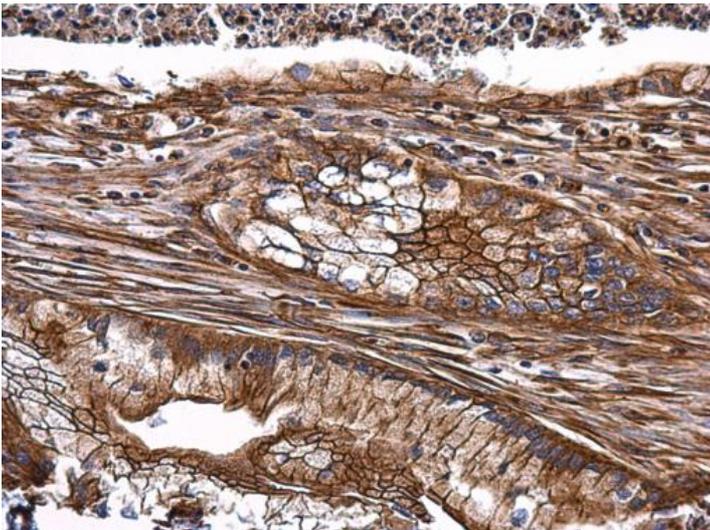


**GTX110520 IHC-P Image**

TNF alpha antibody detects TNF alpha protein at cell membrane in rat brain by immunohistochemical analysis.

Sample: Paraffin-embedded rat brain.

TNF alpha antibody (GTX110520) diluted at 1:400.

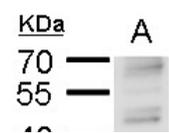


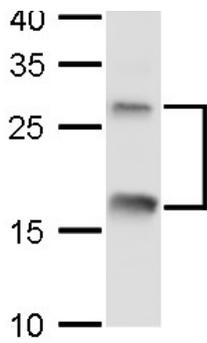
**GTX110520 IHC-P Image**

TNF alpha antibody detects TNF alpha protein at membrane on human gastric carcinoma by immunohistochemical analysis.

Sample: Paraffin-embedded human gastric carcinoma.

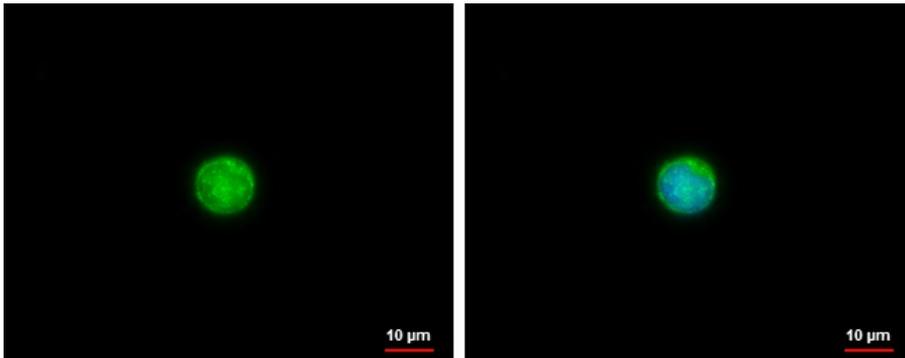
TNF alpha antibody (GTX110520) dilution: 1:500.





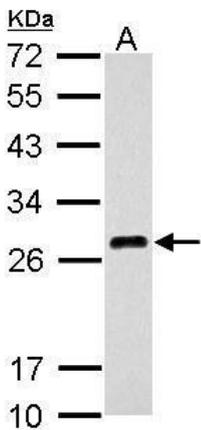
**GTX110520 WB Image**

TNF alpha antibody detects TNF alpha protein by western blot analysis.  
 A. 30 µg NCH-H929 whole cell lysate/extract  
 12 % SDS-PAGE  
 TNF alpha antibody (GTX110520) dilution: 1:500



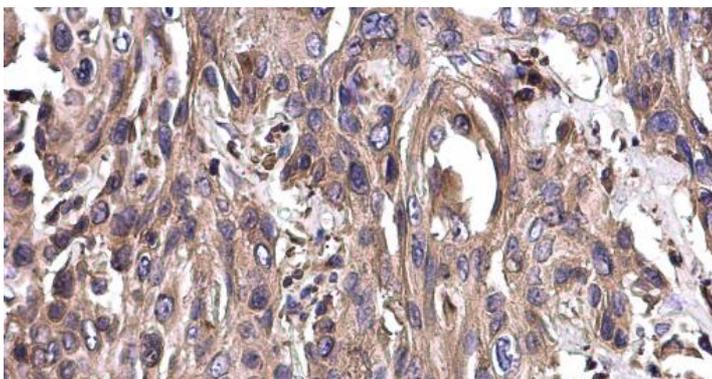
**GTX110520 ICC/IF Image**

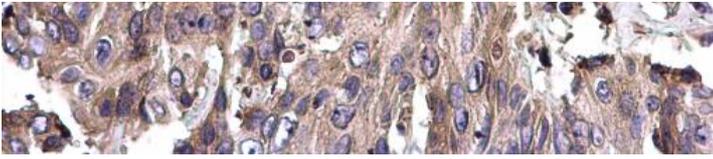
TNF alpha antibody detects TNF alpha protein at membrane by immunofluorescent analysis.  
 Sample: jurkat cells were fixed in 4% paraformaldehyde at RT for 15 min.  
 Green: TNF alpha protein stained by TNF alpha antibody (GTX110520) diluted at 1:500.  
 Blue: Hoechst 33342 staining.



**GTX110520 WB Image**

TNF alpha antibody detects TNF alpha protein by Western blot analysis.  
 A. 30 µg Raji whole cell lysate/extract  
 12 % SDS-PAGE  
 TNF alpha antibody (GTX110520) dilution: 1:1000



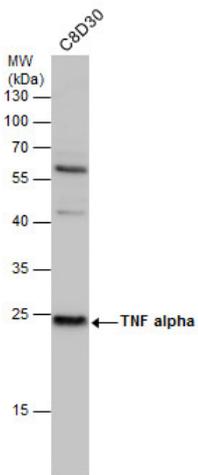


#### GTX110520 IHC-P Image

TNF alpha antibody detects TNF alpha protein at cytoplasm on human esophagus carcinoma by immunohistochemical analysis.

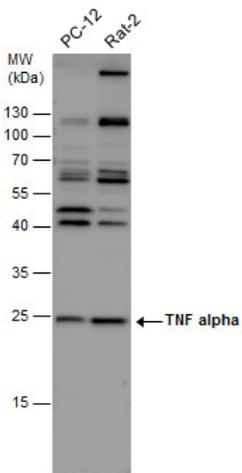
Sample: Paraffin-embedded human esophagus carcinoma .

TNF alpha antibody (GTX110520) diluted at 1:500.



#### GTX110520 WB Image

TNF alpha antibody detects TNF alpha protein by western blot analysis. Whole cell extracts (30  $\mu$ g) was separated by 12% SDS-PAGE, and the membrane was blotted with TNF alpha antibody (GTX110520) diluted at 1:500.



#### GTX110520 WB Image

TNF alpha antibody detects TNF alpha protein by western blot analysis. Various whole cell extracts (30  $\mu$ g) were separated by 12% SDS-PAGE, and the membrane was blotted with TNF alpha antibody (GTX110520) diluted at 1:500.