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Datasheet for ABIN3020863

## anti-TNF alpha antibody (AA 1-233)

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### Overview

Quantity:	100 µL
Target:	TNF alpha
Binding Specificity:	AA 1-233
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TNF alpha antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)

### Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 1-233 of human TNF (NP_000585.2).
Sequence:	MSTESMIRDV ELAEEALPKK TGGPQGSRRRC LFLSLFSFLI VAGATTLFCL LHFGVIGPQR EEFPRDLSLI SPLAQAVRSS SRTPSDKPVA HVVANPQAEG QLQWLNRRAN ALLANGVELR DNQLVVPSEG LYLIYSQVLF KGQGCPSTHV LLTHTISRIA VSYQTKVNLL SAIKSPCQRE TPEGAEAKPW YEPIYLGGVF QLEKGDRLSA EINRPDYLDF AESGQVYFGI IAL
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies

## Target Details

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Target: TNF alpha

Alternative Name: TNF ([TNF alpha Products](#))

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.,TNF,DIF,TNF-alpha,TNFA,TNFSF2,TNKG1F,TNF alpha,Cancer,Signal Transduction,Cell Biology & Developmental Biology,Apoptosis,Inhibition of Apoptosis,Growth factor,TNF,Death Receptor Signaling Pathway,Endocrine & Metabolism,Insulin Receptor Signaling Pathway,Endocrine and metabolic diseases,Metabolic disorders,Immunology & Inflammation,Cytokines,TNF,NF-kB Signaling Pathway,Cell Intrinsic Innate Immunity Signaling Pathway,Neuroscience,Neurodegenerative Diseases,Cardiovascular,TNF

Molecular Weight: 25 kDa

Gene ID: 7124

UniProt: [P01375](#)

Pathways: [NF-kappaB Signaling](#), [Apoptosis](#), [Caspase Cascade in Apoptosis](#), [TLR Signaling](#), [Cellular Response to Molecule of Bacterial Origin](#), [Regulation of Leukocyte Mediated Immunity](#), [Positive Regulation of Immune Effector Process](#), [Production of Molecular Mediator of Immune Response](#), [Positive Regulation of Endopeptidase Activity](#), [Hepatitis C](#), [Protein targeting to Nucleus](#), [Inflammasome](#)

## Application Details

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Application Notes: WB,1:1000 - 1:2000,IHC,1:50 - 1:200,IF,1:50 - 1:200

Restrictions: For Research Use only

## Handling

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Format: Liquid

Buffer: PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.

Preservative: Sodium azide

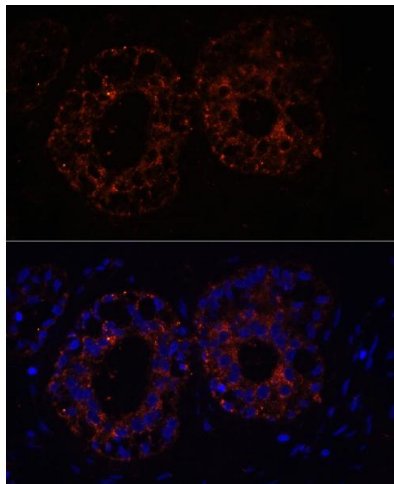
## Handling

Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid freeze / thaw cycles
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

## Publications

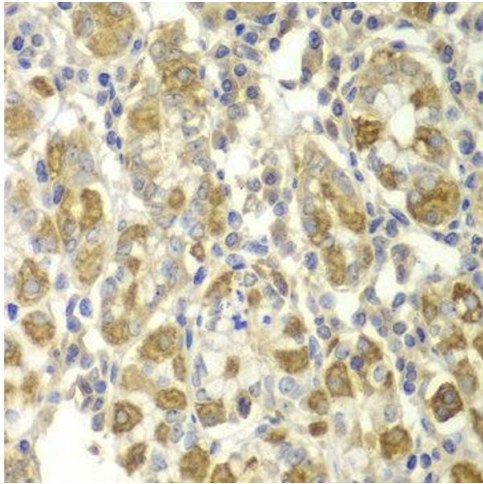
Product cited in:	<p>Yuan, Liu, Yu, Yin, Peng, Gao, Zhu, Cao, Yang, Fan, Li: "FOXm1 contributes to taxane resistance by regulating UHRF1-controlled cancer cell stemness." in: <b>Cell death &amp; disease</b>, Vol. 9, Issue 5, pp. 562, (2018) (<a href="#">PubMed</a>).</p> <p>Hu, Xia, Wu, Li, Qi, Hu, Wei, Li, Tian, Wei, Shen, Yin, Jiang, Yuan, Qiang, Han, Peng: "NSPc1 promotes cancer stem cell self-renewal by repressing the synthesis of all-trans retinoic acid via targeting RDH16 in malignant glioma." in: <b>Oncogene</b>, Vol. 36, Issue 33, pp. 4706-4718, (2017) (<a href="#">PubMed</a>).</p>
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## Images



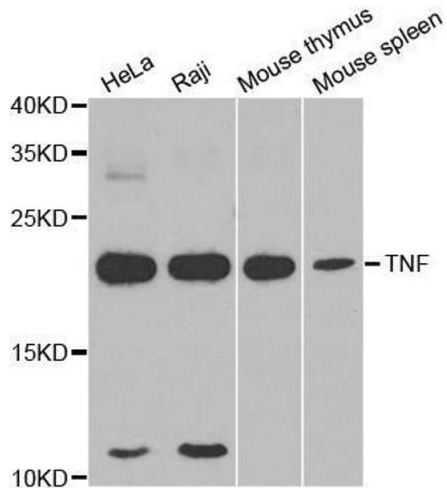
### Immunofluorescence

**Image 1.** Immunofluorescence analysis of Human mammary cancer cells using TNF- $\alpha$  antibody (ABIN3020862, ABIN3020863, ABIN3020864, ABIN1513617 and ABIN6213762) at dilution of 1:100. Blue: DAPI for nuclear staining.



### Immunohistochemistry

**Image 2.**



### Western Blotting

**Image 3.** Western blot analysis of extracts of various cell lines, using TNF $\alpha$  antibody.

Please check the [product details page](#) for more images. Overall 7 images are available for ABIN3020863.