

## Product datasheet

### Anti-TNF alpha antibody ab183896

★★★★★ [1 Abreviews](#) [6 References](#) [5 Images](#)

#### Overview

<b>Product name</b>	Anti-TNF alpha antibody
<b>Description</b>	Rabbit polyclonal to TNF alpha
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> ICC/IF, IHC-P, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Recombinant full length protein within Human TNF alpha aa 1-233. The exact sequence is proprietary. Database link: <a href="#">P01375</a>
<b>Positive control</b>	Human gastric carcinoma and HeLa xenograft tissues. Jurkat cells. Raji, 293T and TNF-transfected 293T whole cell lysates/extracts
<b>General notes</b>	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

#### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.00 Preservative: 0.025% Proclin 300 Constituents: 78% PBS, 1% BSA, 20% Glycerol (glycerin, glycerine)
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab183896 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		1/100 - 1/1000.
IHC-P	★★★★★ (1)	1/100 - 1/1000.
WB		1/1000 - 1/10000. Predicted molecular weight: 26 kDa.

## Target

### Function

Cytokine that binds to TNFRSF1A/TNFR1 and TNFRSF1B/TNFR. It is mainly secreted by macrophages and can induce cell death of certain tumor cell lines. It is potent pyrogen causing fever by direct action or by stimulation of interleukin-1 secretion and is implicated in the induction of cachexia, Under certain conditions it can stimulate cell proliferation and induce cell differentiation.

### Involvement in disease

Genetic variations in TNF are a cause of susceptibility psoriatic arthritis (PSORAS) [MIM:607507]. PSORAS is an inflammatory, seronegative arthritis associated with psoriasis. It is a heterogeneous disorder ranging from a mild, non-destructive disease to a severe, progressive, erosive arthropathy. Five types of psoriatic arthritis have been defined: asymmetrical oligoarthritis characterized by primary involvement of the small joints of the fingers or toes; asymmetrical arthritis which involves the joints of the extremities; symmetrical polyarthritis characterized by a rheumatoidlike pattern that can involve hands, wrists, ankles, and feet; arthritis mutilans, which is a rare but deforming and destructive condition; arthritis of the sacroiliac joints and spine (psoriatic spondylitis).

### Sequence similarities

Belongs to the tumor necrosis factor family.

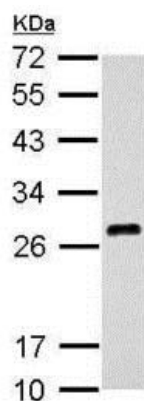
### Post-translational modifications

The soluble form derives from the membrane form by proteolytic processing.  
The membrane form, but not the soluble form, is phosphorylated on serine residues.  
Dephosphorylation of the membrane form occurs by binding to soluble TNFRSF1A/TNFR1.  
O-glycosylated; glycans contain galactose, N-acetylgalactosamine and N-acetylneuraminic acid.

### Cellular localization

Secreted and Cell membrane.

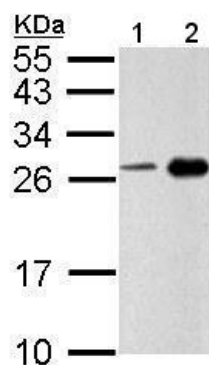
## Images



Western blot - Anti-TNF alpha antibody (ab183896)

Anti-TNF alpha antibody (ab183896) at 1/1000 dilution + Raji whole cell lysate/extract at 30 µg

**Predicted band size:** 26 kDa



Western blot - Anti-TNF alpha antibody (ab183896)

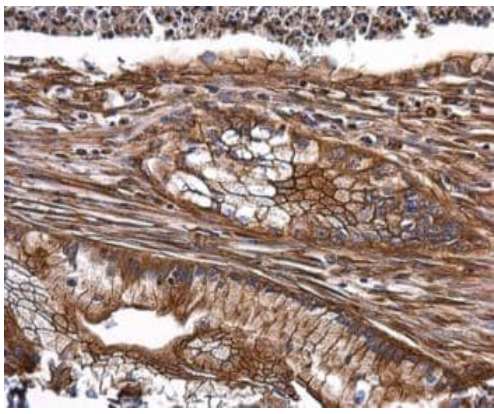
**All lanes :** Anti-TNF alpha antibody (ab183896) at 1/5000 dilution

**Lane 1 :** 293T whole cell lysate/extract

**Lane 2 :** TNF alpha-transfected 293T whole cell lysate/extract

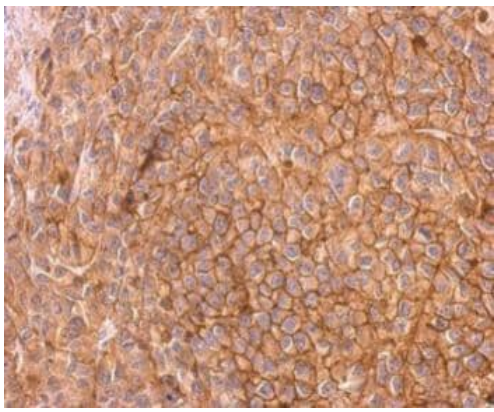
Lysates/proteins at 30 µg per lane.

**Predicted band size:** 26 kDa



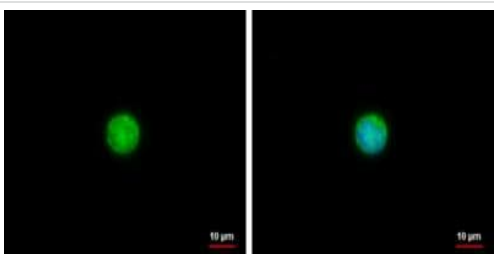
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TNF alpha antibody (ab183896)

Immunohistochemical analysis of paraffin-embedded Human gastric carcinoma, labeling TNF alpha using ab183896 at a 1/500 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TNF alpha antibody (ab183896)

Immunohistochemical analysis of paraffin-embedded HeLa xenograft, labeling TNF alpha using ab183896 at a 1/500 dilution.



Immunocytochemistry/ Immunofluorescence - Anti-TNF alpha antibody (ab183896)

Immunofluorescence analysis of Jurkat cells fixed in 4% paraformaldehyde at RT for 15 minutes, labeling TNF alpha using ab183896 at a 1/500 dilution (green). Blue: Hoechst 33342 staining.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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