

## Product datasheet

### Anti-TNF alpha antibody ab9739

★★★★☆ [11 Abreviews](#) [100 References](#) [2 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> WB, Sandwich ELISA
<b>Species reactivity</b>	<b>Reacts with:</b> Recombinant fragment
<b>Immunogen</b>	Recombinant fragment corresponding to Mouse TNF alpha aa 80-235. E.coli-derived recombinant MurineTNF-alpha Database link: <a href="#">P06804</a>
<b>Positive control</b>	Recombinant mouse TNF alpha protein ( <a href="#">ab9740</a> ) can be used as a positive control in WB.
<b>General notes</b>	<p>This product is no longer batch tested in IHC, for an IHC validated antibody please see <a href="#">ab1793</a>.</p> <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>	Lyophilized:Reconstitute with 200µl of sterile water. Please note that if you receive this product in liquid form it has already been reconstituted as described and no further reconstitution is necessary.
<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.
<b>Storage buffer</b>	No preservative, sterile filtered
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	unknown
<b>Light chain type</b>	unknown

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab9739 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
WB	★★★★★ (8)	Use at an assay dependent concentration. To detect TNF alpha by Western Blot analysis this antibody can be used at a concentration of 0.1 - 0.2 µg/ml. Used in conjunction with compatible secondary reagents the detection limit for recombinant TNF alpha is 1.5 - 3.0 ng/lane, under either reducing or non-reducing conditions. The precursor is ~26 kDa and the secreted form is ~17 kDa.
Sandwich ELISA		Use at an assay dependent concentration. To detect Murine TNF alpha by sandwich ELISA (using 100 µl/well antibody solution) a concentration of 0.5 - 2.0 µg/ml of ab9739 is required. This antigen affinity purified antibody, in conjunction with <b>ab245857</b> detection antibody, allows the detection of at least 0.2 - 0.4 ng/well of recombinant Murine TNF alpha.

## 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.

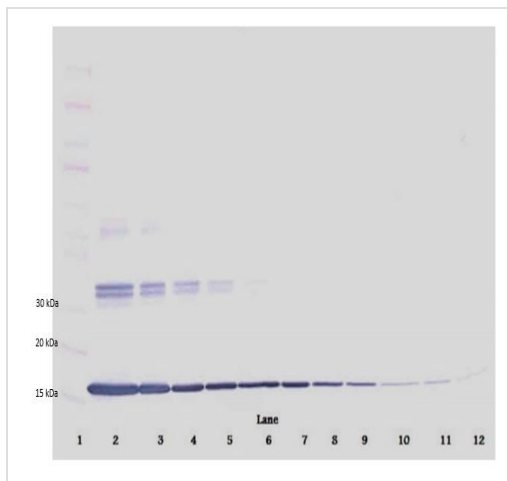
### Post-translational modifications

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

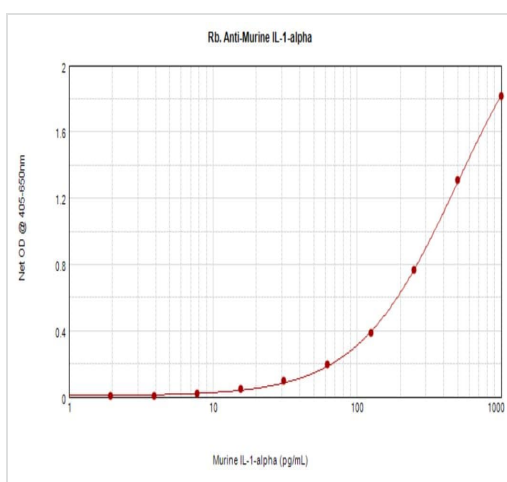


Western blot - Anti-TNF alpha antibody (ab9739)

To detect mouse TNF alpha by Western Blot analysis, ab9739 can be used at a concentration of 0.1-0.2 µg/ml. When used in conjunction with compatible development reagents, the detection limit for recombinant mouse TNF alpha is 1.5-3.0 ng/lane, under either reducing or non-reducing conditions.

**Lanes 1-11:** 250, 125, 62.5, 31.25, 15.625, 7.8, 3.9, 1.95, 0.975, 0.4875 and 0.24 ng recombinant mouse TNF alpha, respectively.

Non-reducing conditions.



Sandwich ELISA - Anti-TNF alpha antibody (ab9739)

ELISA analysis of ab9739. This antigen affinity purified antibody, in conjunction with a suitable detection antibody, allows the detection of at least 0.2 - 0.4 ng/well of recombinant Murine TNF alpha.

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

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