**Product datasheet**

**Anti-TNF alpha antibody ab34674**

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### Overview

**Product name**  
Anti-TNF alpha antibody

**Description**  
Rabbit polyclonal to TNF alpha

**Host species**  
Rabbit

**Tested applications**  
Suitable for: ICC/IF, IP, WB, IHC-P, ELISA, RIA, Neutralising

**Species reactivity**  
Reacts with: Mouse

**Immunogen**  
Recombinant full length protein corresponding to Mouse TNF alpha. (Peptide available as ab151311)

### Properties

**Form**  
Liquid

**Storage instructions**  
Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

**Storage buffer**  
pH: 7.20  
Preservative: 0.01% Sodium azide  
Constituents: 0.42% Potassium phosphate, 0.87% Sodium chloride

**Purity**  
IgG fraction

**Purification notes**  
This antibody is sterile filtered, and has been heated to 56°C for 30 minutes.  
Endotoxin Content: <10 pg/µl by LAL method.

**Clonality**  
Polyclonal

**Isotype**  
IgG

### Applications

Our **Abpromise guarantee** covers the use of ab34674 in the following tested applications.

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

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<td>ICC/IF</td>
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Function
Cytokine that binds to TNFRSF1A/TNFR1 and TNFRSF1B/TNFBR. 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-acetyleneuraminic acid.

Cellular localization
Secreted and Cell membrane.
Western blot - Anti-TNF alpha antibody (ab34674)

Anti-TNF alpha antibody (ab34674) at 1/1000 dilution

Secondary
HRP rabbit secondary antibody at 1/40000 dilution

**Predicted band size:** 26 kDa
**Observed band size:** 17 kDa

*why is the actual band size different from the predicted?*

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**Immunocytochemistry/ Immunofluorescence - Anti-TNF alpha antibody (ab34674)**

ab34674 staining TNF alpha in immortalised bone marrow-derived macrophages by Immunocytochemistry/ Immunofluorescence. Cells were fixed in paraformaldehyde and permeabilized in 0.1% Triton X-100 prior to blocking in 1% BSA + 5% goat serum in PBS for 1 hour at 21°C. The primary antibody was diluted 1/200 in the blocking buffer and incubated with the sample for 1 hour at 21°C. The secondary antibody was Alexa Fluor® 568-conjugated Goat anti-Rabbit polyclonal, diluted 1/500.
ab34674 staining TNF alpha in mouse knee joint sections by Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections). Tissue was fixed with formaldehyde and a heat mediated antigen retrieval step was performed. Samples were then blocked with 10 minutes at room temperature followed by incubation with the primary antibody at a 1/200 dilution for 30 minutes. An undiluted HRP-conjugated human anti-rabbit monoclonal was used as secondary antibody.

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