Datasheet: AHP1212

**Description:** GOAT ANTI HUMAN TNF ALPHA

**Specificity:** TNF ALPHA

**Format:** Purified

**Product Type:** Polyclonal Antibody

**Isotype:** Polyclonal IgG

**Quantity:** 0.1 mg

**RRID** AB_872048

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

<table>
<thead>
<tr>
<th>Application</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow Cytometry</td>
<td></td>
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<tr>
<td>Immunohistology - Frozen</td>
<td></td>
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<tr>
<td>Immunohistology - Paraffin (1)</td>
<td></td>
<td></td>
<td></td>
<td>2.5 - 5.0ug/ml</td>
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<tr>
<td>ELISA</td>
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<td>0.25 - 1.0ug/ml</td>
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<tr>
<td>Immunoprecipitation</td>
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<tr>
<td>Western Blotting</td>
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<td>0.1 - 0.2ug/ml</td>
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<tr>
<td>Functional Assays</td>
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<td></td>
<td></td>
<td>0.012 - 0.014ug/ml</td>
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Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

(1) This product heat-mediated antigen retrieval prior to staining paraffin sections. Citrate buffer, pH6.0, is recommended for this purpose.

### Target Species

Human

### Product Form

Purified IgG - lyophilised

### Reconstitution

Reconstitute with 0.1ml distilled water. For long term storage the addition of 0.09% sodium azide is recommended. NB: For functional studies do not add azide.

### Antiserum Preparation

Antisera to human TNFα were raised by repeated immunisations of goats with highly purified antigen. Purified IgG prepared by affinity chromatography.

### Buffer Solution

Phosphate buffered saline

### Preservative Stabilisers

None present

### Approx. Protein

IgG concentration 1.0mg/ml after reconstitution
### Concentrations

<table>
<thead>
<tr>
<th>Immunogen</th>
<th>Recombinant human TNFα</th>
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### External Database Links

<table>
<thead>
<tr>
<th>UniProt:</th>
<th>Related reagents</th>
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<td>P01375</td>
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<table>
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<tr>
<th>Entrez Gene:</th>
<th>Related reagents</th>
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<tbody>
<tr>
<td>7124</td>
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</tbody>
</table>

### Synonyms

TNFA, TNFSF2

### Specificity

**Goat anti Human TNF alpha antibody** recognizes human Tumour Necrosis Factor alpha (TNF–alpha), a 17.4kDa multi-functional pro-inflammatory cytokine primarily secreted by macrophages, but also produced by T and B lymphocytes, activated monocytes and fibroblasts.

TNF-alpha exists in both a transmembrane and mature soluble form and has many biological properties, including activation of transcription factor NF-kappaB, the induction of apoptosis in various tumour cell lines and the stimulation of cell differentiation and proliferation under certain conditions. TNF-alpha also plays a role in inflammation, septic shock, autoimmune disease and rheumatoid arthritis.

### ELISA

This purified human TNFα antibody may be used in an indirect ELISA or as the capture reagent in a sandwich ELISA with our **biotinylated TNFα antibody** (AHP1212B) as the detection reagent and **recombinant human TNFα** (PHP051) as the standard.

### Histology Positive Control Tissue

Human Breast Carcinoma

### References


### Storage

Prior to reconstitution store at -20°C. After reconstitution store at -20°C.

Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

### Guarantee

Guaranteed for 3 months from the date of reconstitution or until the date of expiry, whichever comes first. Please see label for expiry date.

### Health And Safety Information

Material Safety Datasheet documentation #10162 available at:


### Regulatory

For research purposes only

### Recommended Products

**Recommended Secondary Antibodies**

Rabbit Anti Goat IgG (Fc) (STAR122...) [FITC, HRP]

**Recommended Useful Reagents**