Datasheet: PHP051A

Description: RECOMBINANT HUMAN TNF ALPHA
Name: TNF ALPHA
Format: Rec. Protein
Product Type: Recombinant Protein
Quantity: 10 µg

Product Details

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.

<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>ELISA</td>
<td>-</td>
<td></td>
<td></td>
<td>0.2 - 0.4ng/well</td>
</tr>
<tr>
<td>Western Blotting</td>
<td>-</td>
<td></td>
<td></td>
<td>1.5 - 3.0ng/lane</td>
</tr>
<tr>
<td>Functional Assays</td>
<td>-</td>
<td></td>
<td></td>
<td>0.05ng/ml - 20ng/ml</td>
</tr>
</tbody>
</table>

Where this protein 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 protein for use in their own system using appropriate positive/negative controls.

Target Species

Human

Species Cross Reactivity

Reacts with: Bovine, Mouse

N.B. Antibody reactivity and working conditions may vary between species.

Product Form

Purified recombinant cytokine - lyophilised

Reconstitution

Reconstitute with 0.1 ml distilled water
Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution. For long term storage the addition of 0.09% sodium azide is recommended.

N.B. For functional studies do not add sodium azide

Buffer Solution

TRIS buffered saline

Preservative Stabilisers

None present

Endotoxin Level

<0.1ng/ug

Approx. Protein Concentrations

Total protein concentration 0.1 mg/ml after reconstitution

External Database Links

UniProt:
Entrez Gene: 7124 TNF

Synonyms TNFA, TNFSF2

Product Information Recombinant Human tumor necrosis alpha is an E. coli-derived recombinant protein corresponding to the C-terminal domain of human tumour necrosis factor alpha (TNFa), a pro-inflammatory cytokine with cytotoxic effects on various tumour cells.

Protein Molecular Weight 17.4 kDa based on 157 amino acid sequence

Activity PHP051A has a specific activity of >2 x 10^7 units/mg as determined by cytolysis of L929 cells in the presence of Actinomycin D.

Purity >98% by SDS PAGE and HPLC analysis

ELISA This product may be used as a standard in ELISA with either AHP1212 or AHP1212B.

Western Blotting This product may be used as the positive control in Western Blotting applications with either AHP1212 or AHP1212B.

References

Storage Prior to reconstitution store at +4°C. Following reconstitution store at -20°C.

This product should be stored undiluted.

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

Shelf Life 3 months from date of reconstitution
