Anti-TNF monoclonal antibody, clone 3D9 (DMAB4480MH)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

<table>
<thead>
<tr>
<th>Antigen Description</th>
<th>Tumor necrosis factor (TNF, cachexin or cachectin formerly known as tumor necrosis factor-alpha) is a cytokine involved in systemic inflammation and is a member of a group of cytokines that stimulate the acute phase reaction.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specificity</td>
<td>Effective in inhibition of the biological activity of recombinant and natural TNF-alpha.</td>
</tr>
<tr>
<td>Immunogen</td>
<td>Human recombinant tumor necrosis factor of alpha type</td>
</tr>
<tr>
<td>Isotype</td>
<td>IgG1</td>
</tr>
<tr>
<td>Source/Host</td>
<td>Mouse</td>
</tr>
<tr>
<td>Species Reactivity</td>
<td>Human</td>
</tr>
<tr>
<td>Clone</td>
<td>3D9</td>
</tr>
<tr>
<td>Affinity Constant</td>
<td>Not determined</td>
</tr>
<tr>
<td>Purification</td>
<td>Column chromatography</td>
</tr>
<tr>
<td>Conjugate</td>
<td>Unconjugated</td>
</tr>
<tr>
<td>Applications</td>
<td>Inhibition of biological activity of TNF-alpha in different biological fluids. Detection of TNF-alpha in two-site immunoassay. Immunohistochemistry using formalin-fixed frozen tissues. Not tested with paraffin-embedded sections. Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded. Recommended pairs for sandwich immunoassay: Capture DMAB4480MH Detection DMAB4481MH</td>
</tr>
<tr>
<td>Procedure</td>
<td>Matched Antibody Pairs</td>
</tr>
</tbody>
</table>
**Forma**t  
Purified, Liquid

**Concentration**  
6.3mg/ml (OD280nm, E0.1% = 1.4)

**Buffer**  
PBS, pH 7.4

**Preservative**  
0.1% Sodium Azide

**Storage**  
Store at 2–8°C.

**Warnings**  
This product contains sodium azide, which has been classified as Xn (Harmful), in European Directive 67/548/EEC in the concentration range of 0.1 – 1.0 %. When disposing of this reagent through lead or copper plumbing, flush with copious volumes of water to prevent azide build-up in drains.

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**GENE INFORMATION**

**Gene Name**  
TNF tumor necrosis factor [ Homo sapiens ]

**Official Symbol**  
TNF

**Synonyms**  
TNF; tumor necrosis factor; DIF; TNFA; TNFSF2; TNF-alpha; tumor necrosis factor (TNF superfamily, member 2); superfamily, member 2; Tumor necrosis factor; Cachectin; TNF-alpha; Tumor necrosis factor ligand superfamily member 2; TNF-a; Tumor necrosis factor, membrane form; Tumor necrosis factor, soluble form; cachectin; APC1 protein; OTTHUMP0000029281; TNF, monocyte-derived; TNF, macrophage-derived; TNF superfamily, member 2; tumor necrosis factor alpha; tumor necrosis factor-alpha; tumor necrosis factor ligand superfamily member 2

**Entrez Gene ID**  
7124

**Protein Refseq**  
NP_000585

**UniProt ID**  
P01375

**Chromosome Location**  
6p21.3

**Pathway**  
Adipocytokine signaling pathway; Amoebiasis; African trypanosomiasis; Allograft rejection; Angiopoietin receptor Tie2-mediated signaling; Calcineurin-regulated NFAT-dependent transcription in lymphocytes; Death Receptor Signalling; Extrinsic Pathway for A

**Function**  
cytokine activity; identical protein binding; protease binding; protein binding; transcription regulatory region DNA binding; tumor necrosis factor receptor binding