Product datasheet

Anti-TNF alpha antibody [TNF706 + P/T2] ab199013

Overview

Product name
Anti-TNF alpha antibody [TNF706 + P/T2]

Description
Mouse monoclonal [TNF706 + P/T2] to TNF alpha

Host species
Mouse

Tested applications
Suitable for: ICC/IF, IHC-Fr, IP, Flow Cyt, IHC-P

Species reactivity
Reacts with: Mouse, Rat, Cat, Dog, Human, Zebrafish

Predicted to work with: Non human primates

Immunogen
This product was produced with the following immunogens:
Synthetic peptide corresponding to Human TNF alpha aa 115-130 (N terminal). Immunogen from hexadecapeptide, conjugated to thyroglobulin

Sequence:
NGVELRDNQLVVPSEG

Database link: P01375

Recombinant fragment corresponding to Human TNF alpha (N terminal).
Database link: P01375

Positive control
HeLa, HL-60 and A431 cells. Macrophages in lymph node or tonsil.

General notes
Please note that this antibody is an oligoclonal antibody. It is a cocktail of monoclonal antibodies that have been carefully selected. Oligoclonal antibodies have not only the specificity and batch-to-batch consistency of a monoclonal antibody, but also have the advantage of the sensitivity of a polyclonal antibody due to their ability to recognize multiple epitopes on an antigen.

Properties

Form
Liquid

Storage instructions

Storage buffer
Preservative: 0.05% Sodium azide

Purity
Concentrated Culture Supernatant

Clonality
Monoclonal
Clone number: TNF706 + P/T2
Isotype: IgM
Light chain type: kappa

Applications

Our Abpromise guarantee covers the use of ab199013 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>ICC/IF</td>
<td></td>
<td>1/100 - 1/200.</td>
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<tr>
<td>IHC-Fr</td>
<td></td>
<td>1/100 - 1/200. For 30 min at RT.</td>
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<tr>
<td>IP</td>
<td>Use at an assay dependent concentration. 5 - 10 µL/500 µg protein</td>
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<tr>
<td>Flow Cyt</td>
<td>Use 2-5µl for 10^6 cells.</td>
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<tr>
<td>IHC-P</td>
<td>1/100 - 1/200. For 30 min at RT.</td>
<td></td>
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Target

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 rheumatoid-like 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.
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human Erdheim–Chester disease tissue labeling TNF alpha antibody with ab199013 at 4 µg/mL.

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