

Product datasheet

Anti-TNF alpha antibody [T1] ab8162

★★★★☆ 2 Abreviews

Overview

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|----------------------------|--|
| Product name | Anti-TNF alpha antibody [T1] |
| Description | Mouse monoclonal [T1] to TNF alpha |
| Host species | Mouse |
| Specificity | The antibody reacts with free soluble (17 kDa) and membrane (26 kDa) human TNF-alpha. The antibody inhibits the biological activity of both forms. It does not react with receptor bound TNF-alpha. It can be a useful tool to discriminate between the membrane form of TNF expressed on producer cells and the proteolytically cleaved, soluble TNF-alpha bound to its cognate cell membrane receptors (TNF-RI and TNF-RII). |
| Tested applications | Suitable for: Flow Cyt, IP, Inhibition Assay, WB |
| Species reactivity | Reacts with: Human |

Properties

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|-----------------------------|---|
| Form | Liquid |
| Storage instructions | Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles. |
| Storage buffer | PBS with 0.2% BSA, 0.1% sodium azide |
| Purity | IgG fraction |
| Clonality | Monoclonal |
| Clone number | T1 |
| Isotype | IgG1 |

Applications

Our [Abpromise guarantee](#) covers the use of **ab8162** in the following tested applications.

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

| Application | Abreviews | Notes |
|-------------|-----------|---|
| Flow Cyt | | Use at an assay dependent concentration. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody. |

| Application | Abreviews | Notes |
|------------------|-----------|--|
| IP | | Use at an assay dependent concentration. |
| Inhibition Assay | | Use at an assay dependent concentration. |
| WB | ★★★★☆ | Use at an assay dependent concentration. Used at a dilution of 1/300 on human brain lysate (see Abreview for further information). |

Target

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|---|--|
| Function | Cytokine that binds to TNFRSF1A/TNFR1 and TNFRSF1B/TNFR. 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-acetylneuraminic acid. |
| Cellular localization | Secreted and Cell membrane. |

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