

Product datasheet

Recombinant Rat TNF alpha protein ab201903

1 Image

Description

Product name	Recombinant Rat TNF alpha protein
Purity	> 90 % SDS-PAGE. ab201903 was purified by using conventional chromatography techniques.
Expression system	Escherichia coli
Accession	<u>P16599</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Rat
Sequence	MGSSHHHHHHSSGLVPRGSHMGSHMLRSSSQNSSDKP VAHVVANHQAEQ LEWLSQRANALLANGMDLKDNLVVPADGLYLYSQVLFK GQGCPDYVLL THTVSRFAISYQEKVSLLSAIKSPCPKDTPEGAELKPWYE PMYLGGVFQL EKGDLLSAEVNLPKYLDITESGQVYFGVIAL
Predicted molecular weight	20 kDa including tags
Amino acids	80 to 235
Tags	His tag N-Terminus
Additional sequence information	Refers to the Tumor necrosis factor, soluble form.

Specifications

Our **Abpromise guarantee** covers the use of **ab201903** in the following tested applications.

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

Applications	Mass Spectrometry SDS-PAGE
Mass spectrometry	MALDI-TOF
Form	Liquid

Preparation and Storage

Stability and Storage

Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

pH: 7.40

Constituents: 0.02% DTT, 10% Glycerol (glycerin, glycerine), 89% PBS

General Info

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.

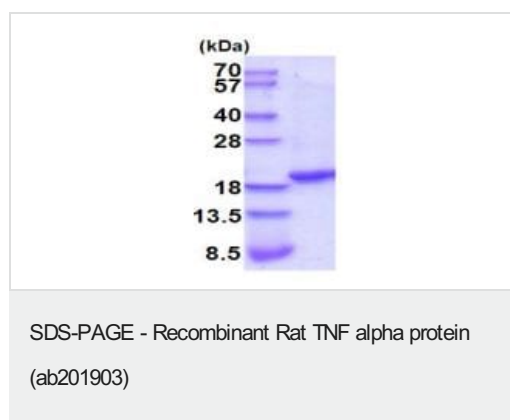
Post-translational modifications

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.

Images



15% SDS-PAGE analysis of ab201903 (3µg).

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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