

### Anti-TNF alpha antibody [52B83] ab1793

★★★★★ [18 Abreviews](#) [238 References](#) [画像数 4](#)

#### 製品の概要

製品名	Anti-TNF alpha antibody [52B83]
製品の詳細	Mouse monoclonal [52B83] to TNF alpha
由来種	Mouse
特異性	This antibody detects both natural and recombinant TNFa. It does not cross-react with TNF beta or lymphotoxin. It reacts with free soluble (17 kDa) and membrane (26 kDa) human TNF-alpha. It does not react with receptor-bound TNF-alpha. Non-specific background staining is observed in connective tissues.
アプリケーション	<b>適用あり:</b> ELISA, IHC-P, ICC/IF, Flow Cyt (Intra), IHC-Fr, WB
種交差性	<b>交差種:</b> Mouse, Guinea pig, Human, Chimpanzee, Zebrafish, Cynomolgus monkey, Rhesus monkey, Apterionotus leptorhynchus
免疫原	Full length native protein (purified) corresponding to Human TNF alpha.
ポジティブ・コントロール	Flow Cyt (Intra): RAW 264.7 cells.
特記事項	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

#### 製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
バッファー	Preservative: 0.02% Sodium azide Constituents: 0.1% BSA, PBS
精製度	Protein G purified
ポリ/モノ	モノクローナル
クローン名	52B83
ミエローマ	unknown

アイソタイプ	IgG1
軽鎖の種類	unknown

## アプリケーション

**The Abpromise guarantee** **Abpromise保証は、** 次のテスト済みアプリケーションにおけるab1793の使用に適用されます  
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご確認ください。

アプリケーション	Abreviews	特記事項
ELISA		Use at an assay dependent concentration.
IHC-P	★★★★★ (5)	Use a concentration of 2.5 µg/ml.
ICC/IF	★★★★★ (2)	Use a concentration of 5 µg/ml.
Flow Cyt (Intra)		1/10. (methanol fixed cells) <b>ab170190</b> - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.
IHC-Fr	★★★★★ (3)	Use a concentration of 2 µg/ml. Fixed in acetone for 10 minutes
WB	★★★★★ (8)	Use a concentration of 2 µg/ml. Predicted molecular weight: 25 kDa. TNF-alpha is normally secreted as a homotrimer with a molecular mass of 52 kDa. Monomeric TNF-alpha is 17.4 kDa A reduced sample treatment and 15% SDS-Page was used.

## ターゲット情報

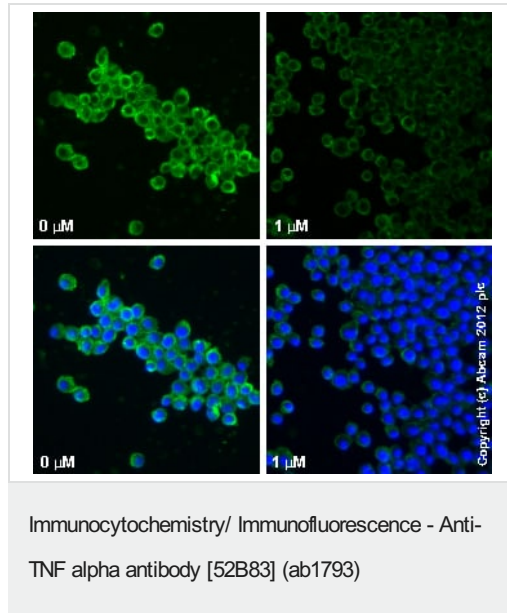
機能	Cytokine that binds to TNFRSF1A/TNFR1 and TNFRSF1B/TNFR. It is mainly secreted by macrophages and can induce cell death of certain tumor cell lines. It is potent pyrogen causing fever by direct action or by stimulation of interleukin-1 secretion and is implicated in the induction of cachexia, Under certain conditions it can stimulate cell proliferation and induce cell differentiation.
関連疾患	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).
配列類似性	Belongs to the tumor necrosis factor family.
翻訳後修飾	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.

細胞内局在

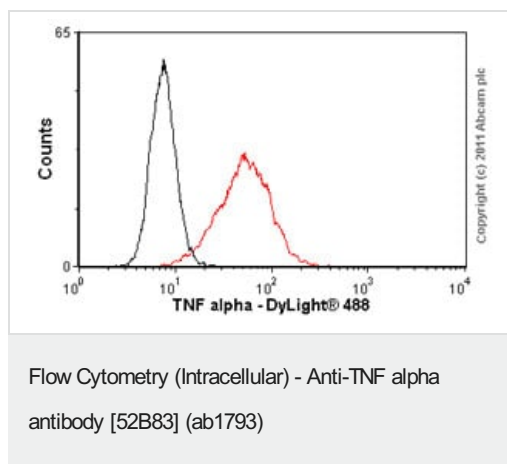
Secreted and Cell membrane.

## 画像



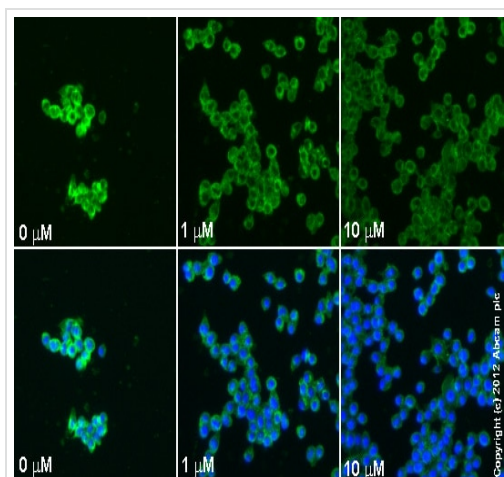
ab1793 staining TNF $\alpha$  in RAW 264.7 cells treated with (R,S)-rolipram (**ab120029**), by ICC/IF. Decrease in TNF $\alpha$  expression correlates with increased concentration of (R,S)-rolipram, as described in literature.

The cells were incubated at 37°C for 24h in media containing different concentrations of **ab120029** ((R,S)-rolipram) in DMSO, fixed with 100% methanol for 5 minutes at -20°C and blocked with PBS containing 10% goat serum, 0.3 M glycine, 1% BSA and 0.1% tween for 2h at room temperature. Staining of the treated cells with ab1793 (5  $\mu$ g/ml) was performed overnight at 4°C in PBS containing 1% BSA and 0.1% tween. A DyLight 488 goat anti-mouse polyclonal antibody (**ab96879**) at 1/250 dilution was used as the secondary antibody. Nuclei were counterstained with DAPI and are shown in blue.



Overlay histogram showing RAW 264.7 cells stained with ab1793 (red line). The cells were fixed with methanol (5 min) and incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab1793, 1/10 dilution) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) (**ab96879**) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG1 [ICIGG1] (**ab91353**, 2 $\mu$ g/1x10<sup>6</sup> cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a decreased signal in RAW 264.7 cells fixed with 4% paraformaldehyde (10 min) used under the same conditions.

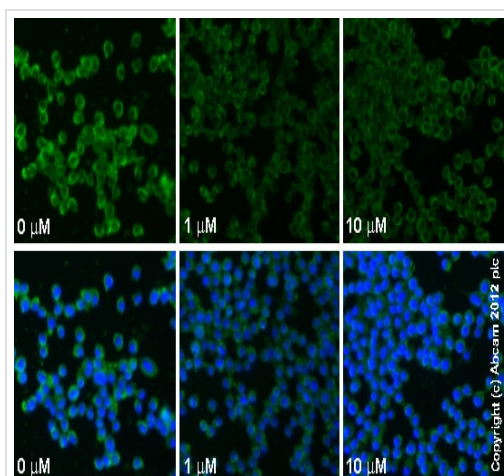
Please note that Abcam do not have data for use of this antibody on non-fixed cells. We welcome any customer feedback.



Immunocytochemistry/ Immunofluorescence - Anti-TNF alpha antibody [52B83] (ab1793)

ab1793 staining TNF $\alpha$  in RAW 264.7 cells treated with (R)-(-)-rolipram (**ab120031**), by ICC/IF. Decrease in TNF $\alpha$  expression correlates with increased concentration of (R)-(-)-rolipram, as described in literature.

The cells were incubated at 37°C for 24h in media containing different concentrations of **ab120031** ((R)-(-)-rolipram) in DMSO, fixed with 100% methanol for 5 minutes at -20°C and blocked with PBS containing 10% goat serum, 0.3 M glycine, 1% BSA and 0.1% tween for 2h at room temperature. Staining of the treated cells with ab1793 (5  $\mu$ g/ml) was performed overnight at 4°C in PBS containing 1% BSA and 0.1% tween. A DyLight 488 goat anti-mouse polyclonal antibody (**ab96879**) at 1/250 dilution was used as the secondary antibody. Nuclei were counterstained with DAPI and are shown in blue.



Immunocytochemistry/ Immunofluorescence - Anti-TNF alpha antibody [52B83] (ab1793)

ab1793 staining TNF $\alpha$  in RAW 264.7 cells treated with (S)-(+)-rolipram (**ab120030**), by ICC/IF. Decrease in TNF $\alpha$  expression correlates with increased concentration of (S)-(+)-rolipram, as described in literature.

The cells were incubated at 37°C for 24h in media containing different concentrations of **ab120030** ((S)-(+)-rolipram) in DMSO, fixed with 100% methanol for 5 minutes at -20°C and blocked with PBS containing 10% goat serum, 0.3 M glycine, 1% BSA and 0.1% tween for 2h at room temperature. Staining of the treated cells with ab1793(5  $\mu$ g/ml) was performed overnight at 4°C in PBS containing 1% BSA and 0.1% tween. A DyLight 488 goat anti-mouse polyclonal antibody (**ab96879**) at 1/250 dilution was used as the secondary antibody. Nuclei were counterstained with DAPI and are shown in blue.

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