

Anti-TGF alpha antibody [P/T1] ab9578

★★★★★ [1 Abreviews](#) [6 References](#) [2 Images](#)

Overview

Product name	Anti-TGF alpha antibody [P/T1]
Description	Mouse monoclonal [P/T1] to TGF alpha
Host species	Mouse
Specificity	This antibody was selected and evaluated immunoserologically for recombinant human TGF-alpha and synthetic (uncoupled) peptides using simple binding and competitive ELISA. Immunohistochemical characterization of the anti-TGF-alpha monoclonal antibody was made on different human carcinomas. Recommended for immunohistochemical detection of TGF-alpha production in human tumor cells, immunoserological monitoring of progression of malignant tumours and for screening of therapeutic efficiency of different human tumors.
Tested applications	Suitable for: IHC-P, Flow Cyt
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide fragment (32-40 amino acids sequence of 50 amino acids) of transforming growth factor alpha (TGF-alpha).
General notes	<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&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.097% Sodium azide Constituents: Tris HCl, 0.2% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	P/T1

Isotype	IgG1
Light chain type	kappa

Applications

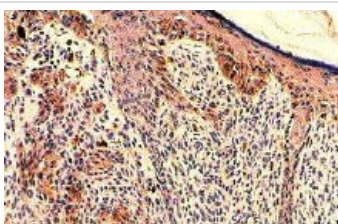
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab9578 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P	★★★★★ (1)	1/100. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
Flow Cyt		Use 1µg for 10 ⁶ cells. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

Target

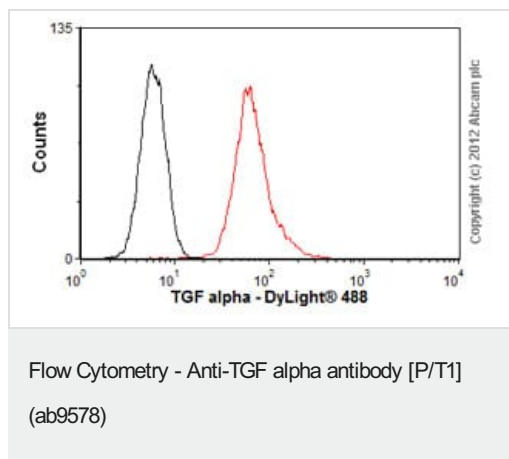
Function	TGF alpha is a mitogenic polypeptide that is able to bind to the EGF receptor and to act synergistically with TGF beta to promote anchorage-independent cell proliferation in soft agar.
Tissue specificity	Isoform 1, isoform 3 and isoform 4 are expressed in keratinocytes and tumor-derived cell lines.
Sequence similarities	Contains 1 EGF-like domain.
Cellular localization	Cell membrane and Secreted > extracellular space.

Images



Immunohistochemical characterization of the anti-TGF-a monoclonal antibody ab9578 on human melanoma.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TGF alpha antibody [P/T1] (ab9578)



Overlay histogram showing A431 cells stained with ab9578 (red line). The cells were fixed with 80% 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 (ab9578, 1µg/1x10⁶ cells) 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](#), 2µg/1x10⁶ cells) used under the same conditions. Acquisition of >5,000 events was performed.

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

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

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