

Product datasheet

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ARG56429 anti-TGF beta 1 antibody

Package: 50 μl Store at: -20°C

Summary

Product Description Rabbit Polyclonal antibody recognizes TGF beta 1

Tested Reactivity Hu, Ms, Rat

Tested Application IHC-P, WB

Specificity This antibody detects endogenous levels of TGF beta 1 protein.

Host Rabbit

Clonality Polyclonal

Isotype IgG

Target Name TGF beta 1
Species Human

Immunogen Synthetic peptide around aa. 341-390 of Human TGF beta 1.

Conjugation Un-conjugated

Alternate Names TGFB; DPD1; TGFbeta; CED; Transforming growth factor beta-1; LAP; TGF-beta-1

Application Instructions

Application table	Application	Dilution
	IHC-P	1:50 - 1:200
	WB	1:500 - 1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form Liquid

Purification Affinity purification with immunogen.

Purity > 95% (by SDS-PAGE).

Buffer PBS (pH 7.2) and 0.05% Sodium azide.

Preservative 0.05% Sodium azide

Concentration 1 mg/ml

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol Gene Full Name Background

TGFB1

transforming growth factor, beta 1

This gene encodes a member of the transforming growth factor beta (TGFB) family of cytokines, which are multifunctional peptides that regulate proliferation, differentiation, adhesion, migration, and other functions in many cell types. Many cells have TGFB receptors, and the protein positively and negatively regulates many other growth factors. The secreted protein is cleaved into a latency-associated peptide (LAP) and a mature TGFB1 peptide, and is found in either a latent form composed of a TGFB1 homodimer, a LAP homodimer, and a latent TGFB1-binding protein, or in an active form composed of a TGFB1 homodimer. The mature peptide may also form heterodimers with other TGFB family members. This gene is frequently upregulated in tumor cells, and mutations in this gene result in Camurati-Engelmann

disease.[provided by RefSeq, Oct 2009]

Multifunctional protein that controls proliferation, differentiation and other functions in many cell types. Function

Many cells synthesize TGFB1 and have specific receptors for it. It positively and negatively regulates many other growth factors. It plays an important role in bone remodeling as it is a potent stimulator of osteoblastic bone formation, causing chemotaxis, proliferation and differentiation in committed osteoblasts. Can promote either T-helper 17 cells (Th17) or regulatory T-cells (Treg) lineage differentiation in a concentration-dependent manner. At high concentrations, leads to FOXP3-mediated suppression of RORC and down-regulation of IL-17 expression, favoring Treg cell development. At low concentrations in concert with IL-6 and IL-21, leads to expression of the IL-17 and IL-23 receptors, favoring differentiation to

Th17 cells. [UniProt]

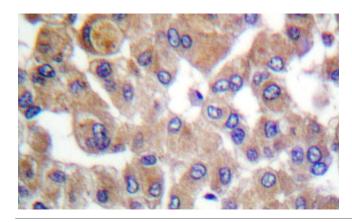
Calculated Mw PTM

44 kDa Glycosylated.

The precursor is cleaved into mature TGF-beta-1 and LAP, which remains non-covalently linked to mature

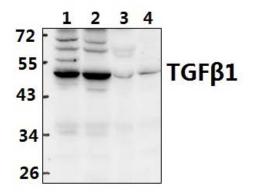
TGF-beta-1 rendering it inactive.

Images



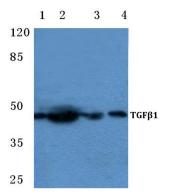
ARG56429 anti-TGF beta 1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human breast carcinoma tissue stained with ARG56429 anti-TGF beta 1 antibody.



ARG56429 anti-TGF beta 1 antibody WB image

Western blot: 40 µg of 1) L02, 2) HEK293T, 3) AML-12, and 4) H9C2 whole cell lysates stained with ARG56429 anti-TGF beta 1 antibody at 1:500 dilution.



ARG56429 anti-TGF beta 1 antibody WB image

Western blot: 1) HeLa, 2) SP2/0, 3) H9C2, and 4) MCF-7 cell lysates stained with ARG56429 anti-TGF beta 1 antibody at 1:500 dilution.