

[Go to Product page](#)

Datasheet for ABIN917477

anti-TGF-beta antibody (AA 301-350) (Alexa Fluor 647)

Overview

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| Quantity: | 100 µL |
| Target: | TGF-beta (TGFb) |
| Binding Specificity: | AA 301-350 |
| Reactivity: | Human, Mouse, Rat, Rabbit, Sheep |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This TGF-beta antibody is conjugated to Alexa Fluor 647 |
| Application: | Western Blotting (WB), Flow Cytometry (FACS), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)) |

Product Details

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| Immunogen: | KLH conjugated synthetic peptide derived from human TGF Beta 1 |
| Isotype: | IgG |
| Specificity: | This antibody will preferentially react with TGFB1, but will also detect TGFB2 (93 %) and TGFB3 (86 %) based upon sequence similarity. |
| Cross-Reactivity: | Human, Mouse, Rabbit, Rat, Sheep |
| Predicted Reactivity: | Dog,Cow,Pig,Guinea Pig |
| Purification: | Purified by Protein A. |

Target Details

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| Target: | TGF-beta (TGFB) |
| Alternative Name: | TGF Beta 1+2+3 (TGFB Products) |
| Background: | <p>Synonyms: CED, LAP, DPD1, TGFB, TGFbeta, Transforming growth factor beta-1, TGF-beta-1, TGFB1, TGFB2, TGFB3</p> <p>Background: Multifunctional protein that controls proliferation, differentiation and other functions in many cell types. 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.</p> |
| Gene ID: | 7040 |
| UniProt: | P01137 |
| Pathways: | EGFR Signaling Pathway , Cellular Response to Molecule of Bacterial Origin , Stem Cell Maintenance , Glycosaminoglycan Metabolic Process , Regulation of Muscle Cell Differentiation , Cell-Cell Junction Organization , Ribonucleoside Biosynthetic Process , Skeletal Muscle Fiber Development , Regulation of Carbohydrate Metabolic Process , Protein targeting to Nucleus |

Application Details

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| Application Notes: | FCM 1:20-100 IF(IHC-P) 1:50-200 IF(IHC-F) 1:50-200 IF(ICC) 1:50-200 |
| Restrictions: | For Research Use only |

Handling

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| Format: | Liquid |
| Concentration: | 1 µg/µL |
| Buffer: | Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol. |

Handling

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| Preservative: | ProClin |
| Precaution of Use: | This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only. |
| Storage: | -20 °C |
| Storage Comment: | Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles. |
| Expiry Date: | 12 months |