Datasheet for ABIN7177931

anti-TGFB1 antibody (AA 30-278)

2 Images

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Overview

Quantity:	100 µg
Target:	TGFB1
Binding Specificity:	AA 30-278
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TGFB1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunoprecipitation (IP)

Product Details

Immunogen:	Recombinant Mouse Transforming growth factor beta-1 protein (30-278AA)
Isotype:	IgG
Cross-Reactivity:	Human, Mouse
Purification:	>95%, Protein G purified

Target Details

Target:	TGFB1
Alternative Name:	Tgfb1 (TGFB1 Products)
Background:	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

Target Details

	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 (PubMed:18368049). Mediates SMAD2/3 activation by inducing its phosphorylation and subsequent translocation to the nucleus. Can induce epithelial-to-mesenchymal transition (EMT) and cell migration in various cell types (By similarity). Aliases: Tgfb1 antibody, Transforming growth factor beta-1 proprotein [Cleaved into: Latency-associated peptide antibody, LAP), Transforming growth factor beta-1 antibody, TGF-beta-1)] antibody
UniProt:	P04202
Pathways:	EGFR Signaling Pathway, Dopaminergic Neurogenesis, Cellular Response to Molecule of Bacterial Origin, Glycosaminoglycan Metabolic Process, Regulation of Leukocyte Mediated Immunity, Regulation of Muscle Cell Differentiation, Positive Regulation of Immune Effector Process, Cell-Cell Junction Organization, Production of Molecular Mediator of Immune Response, Ribonucleoside Biosynthetic Process, Skeletal Muscle Fiber Development, Regulation of Carbohydrate Metabolic Process, Protein targeting to Nucleus, Autophagy, Cancer Immune Checkpoints

Application Details

Application Notes:	Recommended dilution: WB:1:500-1:5000, IP:1:200-1:2000,
Restrictions:	For Research Use only

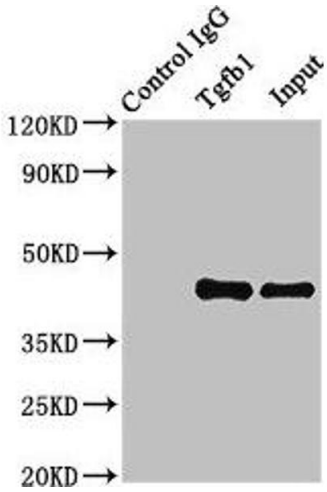
Handling

Format:	Liquid
Buffer:	Preservative: 0.03 % Proclin 300 Constituents: 50 % Glycerol, 0.01M PBS, PH 7.4
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

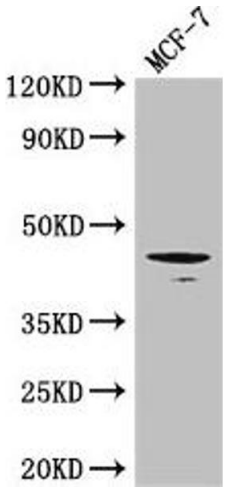
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images



Western Blotting

Image 1. Immunoprecipitating Tgfb1 in MCF-7 whole cell lysate Lane 1: Rabbit control IgG instead of (1 µg) instead of ABIN7177931 in MCF-7 whole cell lysate. For western blotting, a HRP-conjugated Protein G antibody was used as the secondary antibody (1/2000) Lane 2: ABIN7177931 (8 µg) + MCF-7 whole cell lysate (500 µg) Lane 3: MCF-7 whole cell lysate (10 µg)



Western Blotting

Image 2. Western Blot Positive WB detected in: MCF-7 whole cell lysate All lanes: Tgfb1 antibody at 3 µg/mL Secondary Goat polyclonal to rabbit IgG at 1/50000 dilution Predicted band size: 45 kDa Observed band size: 45 kDa