

Datasheet for ABIN7212208

anti-TGFB1 antibody**3** Images[Go to Product page](#)

Overview

Quantity:	100 µL
Target:	TGFB1
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This TGFB1 antibody is un-conjugated
Application:	Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	TGFβ1 Mouse Monoclonal Antibody (10E5)
Immunogen:	Synthetic Peptide of TGFβ1 at AA range of 310-390
Clone:	10E5
Isotype:	IgG1
Specificity:	TGFβ1 protein detects endogenous levels of TGFB1.
Purification:	The antibody was affinity-purified from mouse ascites by affinity-chromatography using specific immunogen

Target Details

Target:	TGFB1
Alternative Name:	TGFβ1 (TGFB1 Products)

Target Details

Background: Mouse Anti-TGFβ1 Mouse Monoclonal Antibody (10E5),TGFB1,TGFB1 (transforming growth factor beta 1) encodes a secreted ligand of the TGF-beta (transforming growth factor-beta) superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors that regulate gene expression. The encoded preproprotein is proteolytically processed to generate a latency-associated peptide (LAP) and a mature peptide, and is found in either a latent form composed of a mature peptide homodimer, a LAP homodimer, and a latent TGF-beta binding protein, or in an active form consisting solely of the mature peptide homodimer. The mature peptide may also form heterodimers with other TGFB family members. This encoded protein regulates cell proliferation, differentiation and growth, and can modulate expression and activation of other growth factors including interferon gamma and tumor necrosis factor alpha. TGFB1 is frequently upregulated in tumor cells, and mutations in TGFB1 result in Camurati-Engelmann disease.,TGFB1

Molecular Weight: observed band 12,25,45-65kDa

Gene ID: 7040

UniProt: [P01137](#)

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: Optimal working dilutions should be determined experimentally by the investigator. Suggested starting dilutions are as follows: IHC-P (1:100-1:200).

Comment: Primary Antibody

Restrictions: For Research Use only

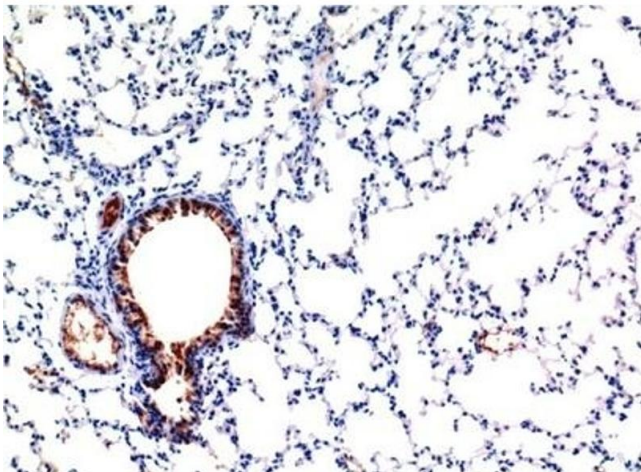
Handling

Format: Liquid

Handling

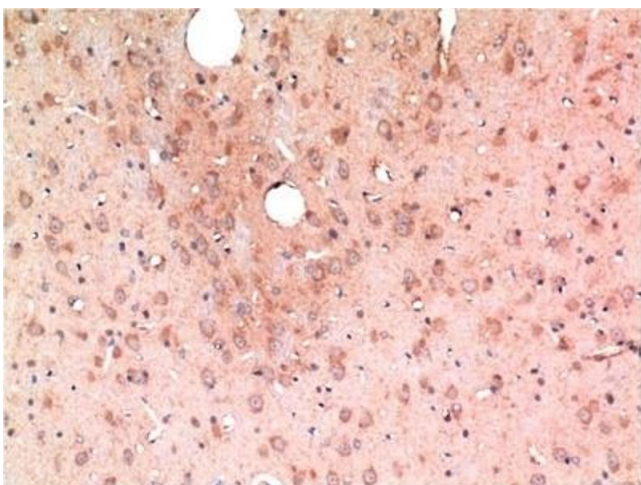
Concentration:	1 mg/mL
Buffer:	PBS containing 50 % Glycerol, 0.5 % BSA and 0.02 % Sodium Azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Stable for one year at -20°C from date of shipment. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Aliquot to avoid repeated freezing and thawing.

Images



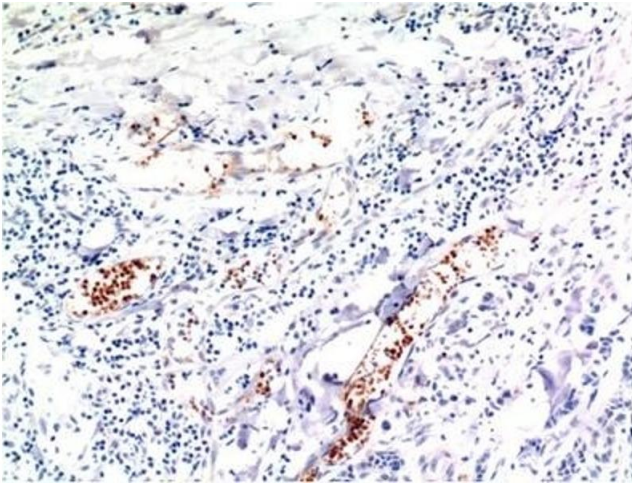
Immunohistochemistry

Image 1. Immunohistochemical analysis of paraffin-embedded Mouse Lung Tissue using TGFβ1 Mouse mAb diluted at 1:200.



Immunohistochemistry

Image 2. Immunohistochemical analysis of paraffin-embedded Rat Brain Tissue using TGFβ1 Mouse mAb diluted at 1:200.



Immunohistochemistry

Image 3. Immunohistochemical analysis of paraffin-embedded Human Breast Carcinoma Tissue using TGFβ1 Mouse mAb diluted at 1:200.