

A Reliable Research Partner in Life Science and Medicine

## **Recombinant TGF beta 1 Monoclonal Antibody**

catalog number: AN301902L

Note: Centrifuge before opening to ensure complete recovery of vial contents.

#### **Description**

Reactivity Human;Rat;Mouse

Immunogen Recombinant human TGF beta 1 fragment

 Host
 Rabbit

 Isotype
 IgG, κ

 Clone
 A618

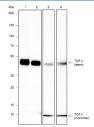
Purification Protein Apurified

Buffer PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant.

### Applications Recommended Dilution

WB 1:1000 IHC 1:500-1:1000

#### Data

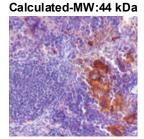


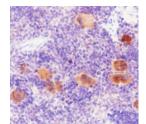
Western Blot with TGF beta 1 Monoclonal Antibody at dilution of 1:1000. Lane 1: Saos-2, Lane 2: K562, Lane 3:

Immunohistochemistry of paraffin-embedded Human spleen using TGF beta 1 Monoclonal Antibody at dilution of 1:1000.

Mouse spleen, Lane 4: Rat spleen
Observed-MW:44, 10 kDa

#### Observed-WW.44, TO KD





Rev. V1.1

Immunohistochemistry of paraffin-embedded Mouse spleen Immunohistochemistry of paraffin-embedded Rat spleen using TGF beta 1 Monoclonal Antibody at dilution of 1:1000. using TGF beta 1 Monoclonal Antibody at dilution of 1:500.

## Preparation & Storage

Storage Storage Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.

Shipping Ice bag

#### **Background**

#### For Research Use Only

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# Elabscience®

#### **Elabscience Bionovation Inc.**

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Transforming growth factor- $\beta$  (TGF- $\beta$ ) superfamily members are critical regulators of cell proliferation and differentiation, developmental patterning and morphogenesis, and disease pathogenesis. TGF- $\beta$  elicits signaling through three cell surface receptors: type I (RI), type II (RII), and type III (RIII). Type I and type II receptors are serine/ threonine kinases that form a heteromeric complex. In response to ligand binding, the type II receptors form a stable complex with the type I receptors allowing phosphorylation and activation of type I receptor kinases. The type III receptor, also known as betaglycan, is a transmembrane proteoglycan with a large extracellular domain that binds TGF- $\beta$  with high affinity but lacks a cytoplasmic signaling domain. Expression of the type III receptor can regulate TGF- $\beta$  signaling through presentation of the ligand to the signaling complex. The only known direct TGF- $\beta$  signaling effectors are the Smad family proteins, which transduce signals from the cell surface directly to the nucleus to regulate target gene transcription.

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