

Recombinant TGF beta 1 Monoclonal Antibody

catalog number: AN301902L

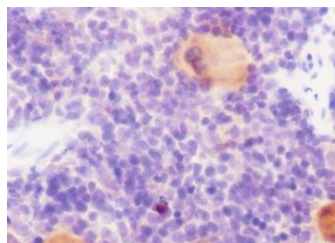
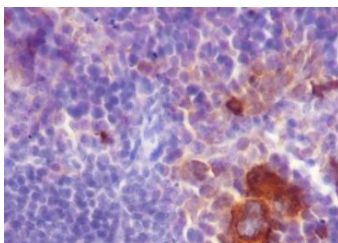
Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Reactivity	Human;Rat;Mouse
Immunogen	Recombinant human TGF beta 1 fragment
Host	Rabbit
Isotype	IgG, κ
Clone	A618
Purification	Protein A purified
Buffer	PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant.

Applications Recommended Dilution

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



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

Preparation & Storage

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

Background

Transforming growth factor- β (TGF- β) superfamily members are critical regulators of cell proliferation and differentiation, developmental patterning and morphogenesis, and disease pathogenesis. TGF- β 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- β with high affinity but lacks a cytoplasmic signaling domain. Expression of the type III receptor can regulate TGF- β signaling through presentation of the ligand to the signaling complex. The only known direct TGF- β 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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Toll-free: 1-888-852-8623
Web: www.elabscience.com

Tel: 1-832-243-6086
Email: techsupport@elabscience.com

Fax: 1-832-243-6017

Rev. V1.0