

# PE-conjugated NeutraKine<sup>®</sup> TGF beta 1 Monoclonal antibody

Catalog Number: PE-69012

## Basic Information

Catalog Number:

PE-69012

Size:

200 µg/ml

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

HZ-1011

GenBank Accession Number:

GeneID (NCBI):

7040

Full Name:

transforming growth factor, beta 1

Purification Method:

Protein G purification

CloneNo.:

1E3E9

Excitation/Emission maxima wavelengths:

496 nm, 565 nm / 578 nm

## Applications

Tested Applications:

Species Specificity:

human

## Background Information

TGFB, also named as LAP and TGFB1, is a multifunctional peptide that controls proliferation, differentiation, and other functions in many cell types. TGFB acts synergistically with TGFA in inducing transformation. It also acts as a negative autocrine growth factor. Dysregulation of TGFB activation and signaling may result in apoptosis. Many cells synthesize TGFB and almost all of them have specific receptors for it. TGFB 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. It is highly expressed in bone. Mutation of TGFB are the cause of Camurati-Engelmann disease (CED) which known as progressive diaphyseal dysplasia 1 (DPD1).

This antibody can be used to neutralize the bioactivity of TGF beta 1.

## Storage

Storage:

Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

PBS with 0.1% sodium azide and 0.5% BSA.

Aliquoting is unnecessary for -20°C storage

