For Research Use Only

TGF Beta 1 Polyclonal antibody

Catalog Number: 18978-1-AP 110 Publications



Basic Information

Catalog Number:

18978-1-AP

150ul , Concentration: 220 $\mu g/ml$ by Bradford method using BSA as the

standard;

Source:

Rabbit

Isotype:

Observed MW:

Calculated MW: 44 kDa

NM 000660

UNIPROT ID:

Full Name:

P01137

GeneID (NCBI):

GenBank Accession Number:

transforming growth factor, beta 1

25 kDa

Purification Method: Antigen affinity purification Recommended Dilutions:

WB: 1:200-1:1000 IHC: 1:50-1:500

Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, IHC, IF, Cell treatment

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat, pig, canine, monkey, bovine, sheep

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate

buffer pH 6.0

Positive Controls:

WB: MCF-7 cells,

IHC: human lung cancer tissue,

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 $cells \, synthesize \, TGFB \, and \, almost \, all \, of \, them \, have \, specific \, receptors \, for \, it. \, TGFB \, positively \, and \, negatively \, regulates \, it is a simple of them \, it is a specific receptor for it. \, TGFB \, positively \, and \, negatively \, regulates \, it is a specific receptor for it. \, TGFB \, positively \, and \, negatively \, regulates \, it is a specific receptor for it. \, TGFB \, positively \, and \, negatively \, regulates \, it is a specific receptor for it. \, TGFB \, positively \, and \, negatively \, regulates \, it is a specific receptor for it. \, TGFB \, positively \, and \, negatively \, regulates \, it is a specific receptor for it. \, TGFB \, positively \, and \, negatively \, regulates \, it is a specific receptor for it. \, TGFB \, positively \, and \, negatively \, regulates \, it is a specific receptor for it. \, TGFB \, positively \, and \, negatively \, regulates \, it is a specific receptor for it. \, TGFB \, positively \, and \, negatively \, regulates \, it is a specific receptor for its a specific r$ 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). Full length, inactive 44 kD TGFB1 is cleaved into mature TGFB1 (13 kD). TGFB1 also homodimerizes and heterodimerizes with TGFB2, so there is potential for multiple different band sizes in WB (12, 25, 45 to 65 kDa).

Notable Publications

Author	Pubmed ID	Journal	Application
Fang Dou	30215298	Rejuvenation Res	WB
Xin Liang	28850927	Biomed Pharmacother	WB
Haoyu Ruan	27581744	Sci Rep	IHC

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

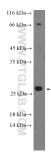
For technical support and original validation data for this product please contact:

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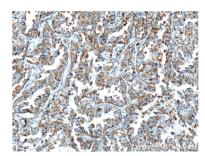
E: proteintech@ptglab.com W: ptglab.com

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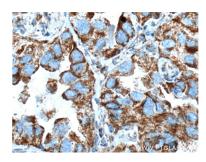
Selected Validation Data



MCF-7 cells were subjected to SDS PAGE followed by western blot with 18978-1-AP (TGF-beta 1 antibody at dilution of 1:300 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffinembedded human lung cancer tissue slide using 18978-1-AP (TGF-beta 1 antibody at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human lung cancer tissue slide using 18978-1-AP (TGF-beta 1 antibody at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).