bs-4538R **[Primary Antibody]**

TGF Beta 1+2+3 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 7040 **SWISS:** P01137

Target: TGF Beta 1+2+3

Immunogen: KLH conjugated synthetic peptide derived from human TGF Beta 1: 301-350/390.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: This gene encodes a member of the transforming growth factor beta (TGFB) family of cytokines, which are multifunctional peptides that regulate proliferation, differentiation, adhesion, migration, and other functions in many cell types. Many cells have TGFB receptors, and the protein positively and negatively regulates many other growth factors. The secreted protein is cleaved into a latency-associated peptide (LAP) and a mature TGFB1 peptide, and is found in either a latent form composed of a TGFB1 homodimer, a LAP homodimer, and a latent TGFB1-binding protein, or in an active form composed of a TGFB1 homodimer. The mature peptide may also form heterodimers with other TGFB family members. This gene is frequently upregulated in tumor cells, and mutations in this gene result in Camurati-Engelmann disease.

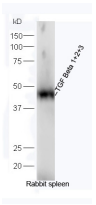
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (2μg/Test)

Reactivity: Human, Mouse, Rat, Rabbit (predicted: Pig, Sheep, Cow, Dog, GuineaPig)

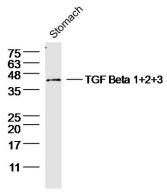
Predicted MW.: 12.8/44 kDa

Subcellular Location: Secreted ,Extracellular matrix

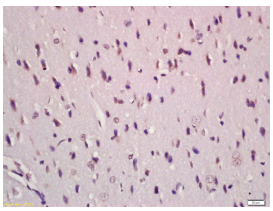
VALIDATION IMAGES



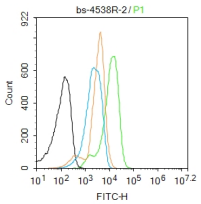
Sample: Spleen (Rabbit) Lysate at 40 ug Primary: Anti-TGF Beta 1+2+3 (bs-4538R) at 1/300 dilution Secondary: HRP conjugated Goat-Anti-rabbit IgG (bs-0295G-HRP) at 1/5000 dilution Predicted band size: 12.8/44 kD Observed band size: 44 kD



Sample: Stomach (mouse) Lysate at 40 ug Primary: Anti- TGF Beta 1+2+3 (bs-4538R)at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 12.8/44kD Observed band size: 44 kD



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-TGF Beta 1+2+3 Polyclonal Antibody, Unconjugated(bs-4538R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Blank control: K562. Primary Antibody (green

line): Rabbit Anti-TGF Beta 1+2+3 antibody (bs-4538R) Dilution: 2μg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-rabbit IgG-FITC Dilution: 1μg /test. Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 0.1%PBST for 20 min at room temperature. The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

SELECTED CITATIONS

- **[IF=6.832]** Yanhong Li. et al. Therapeutic potential of human umbilical cord mesenchymal stem cells on aortic atherosclerotic plaque in a high-fat diet rabbit model. Stem Cell Res Ther. 2021 Dec;12(1):1-14 IHC ;Rabbit. 34266502
- **[IF=6]** Yanhong Li. et al. Allogeneic Adipose-Derived Mesenchymal Stem Cell Transplantation Alleviates Atherosclerotic Plaque by Inhibiting Ox-LDL Uptake, Inflammatory Reaction and Endothelial Damage in Rabbits. CELLS-BASEL. 2023 Jan;12(15):1936 IHC ;Rabbit. 37566014
- **[IF=5.6]** Yin-Hua Cheng. et al. A Preliminary Investigation of the Roles of Endometrial Cells in Endometriosis Development via In Vitro and In Vivo Analyses. INT J MOL SCI. 2024 Jan;25(7):3873 IHC ;Rat. 38612685
- **[IF=4.546]** Bin Zeng. et al. Dietary Soy Protein Isolate Attenuates Intestinal Immunoglobulin and Mucin Expression in Young Mice Compared with Casein. Nutrients. 2020 Sep;12(9):2739 WB ;Mouse. 32911830
- **[IF=4.5]** Jun Zhao. et al. Porous gelatin microspheres implanted with adipose mesenchymal stromal cells promote angiogenesis via protein kinase B/endothelial nitric oxide synthase signaling pathway in bladder reconstruction. CYTOTHERAPY. 2023 Oct;: WB ;Rat. 37804283