bs-20412R **[Primary Antibody]**

TGF beta 2 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 7042 **SWISS:** P61812

Target: TGF beta 2

Immunogen: KLH conjugated synthetic peptide derived from human TGF beta 2: 351-414/414.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: Preservative: 0.02% Proclin300, Constituents: 1% BSA, 0.01M PBS, pH7.4.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: Transforming growth factor beta s (TGF beta s) were originally discovered due to their ability to promote anchorage-independent growth of rat NRK fibroblasts in the presence of TGF Alpha. It is now realized that TGF beta s mediate many cell-cell interactions that occur during embryonic development. Three TGF beta s have been identified in mammals. TGF beta 1, TGF beta 2 and TGF beta 3 are each synthesized as precursor proteins that are very similar in that each is cleaved to yield a 112 amino acid polypeptide that remains associated with the latent portion of the molecules. Biologically active TGF beta requires dimerization of the monomers (usually homodimers) and release of the latent peptide portion. Overall, the mature region of the TGF beta 3 protein has approximately 80% identity to the mature region of both TGF beta 1 and TGF beta 2. However, the NH2 terminals or precursor regions of their molecules share only 27% sequence identity.

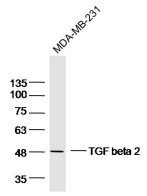
Applications: **WB** (1:500-2000)

Reactivity: Human, Mouse, Rat

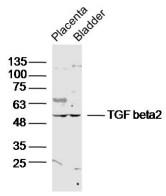
Predicted MW.: 50 kDa

Subcellular Location: Secreted

VALIDATION IMAGES



Sample: MDA-MB-231 (human)cell Lysate at 40 ug Primary: Anti- TGF beta2 (bs-20412R)at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 50 kD Observed band size: 48 kD



Sample: Placenta (Mouse)Lysate at 40 ug Bladder (Mouse)Lysate at 40 ug Primary: Anti-TGF beta 2(bs-20412R)at 1/300 dilution Secondary: IRDye800CW Goat Anti-RabbitIgG at 1/20000 dilution Predicted band size: 50kD Observed band size: 50kD

SELECTED CITATIONS

- **[IF=10.2]** Son Boram. et al. Secured delivery of basic fibroblast growth factor using human serum albumin-based protein nanoparticles for enhanced wound healing and regeneration. J NANOBIOTECHNOL. 2023 Dec;21(1):1-18 ICC ;Human. 37658367
- **[IF=8.702]** Xiao, Jiangwei. et al. IRE1α arm of unfolded protein response in muscle-specific TGF-β signaling-mediated regulation of muscle cell immunological properties. CELL MOL BIOL LETT. 2023 Dec;28(1):1-24 WB ;Mouse. 36849929
- **[IF=6.543]** Zhong Li. et al. The TBX1/miR-193a-3p/TGF-β2 Axis Mediates CHD by Promoting Ferroptosis. Oxid Med Cell

Longev. 2022;2022:5130546 WB ;Human. 35035663

- **[IF=5.191]** Chao Ye. et al. Naringin in the repair of knee cartilage injury via the TGF-β/ALK5/Smad2/3 signal transduction pathway combined with an acellular dermal matrix. J Orthop Transl. 2021 Aug;: IHC ;Rabbit. 10.1016/j.jot.2021.06.004
- **[IF=2.379]** Weiwei Liu. et al. CircHIPK3 regulates cardiac fibroblast proliferation, migration and phenotypic switching through the miR-152-3p/TGF-β2 axis under hypoxia. 2020 Aug 25 WB ;Mouse. 32904464