bs-0406R **[Primary Antibody]**

IGFBP5 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 3488 **SWISS:** P24593

Target: IGFBP5

Immunogen: KLH conjugated synthetic peptide derived from human IGFBP5: 101-200/272.

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: IGFBP5 is one of a family of proteins that bind to insulin-like growth factors (IGFs). IGFBP5 is a multifunctional protein which acts not only as a traditional binding protein but also functions as a growth factor independent of IGFs to stimulate bone formation. Currently there are seven named IGF-BPs that form high affinity complexes with both IGFI and IGFII. IGFBP5 is the major IGF-binding protein present in bone tissue and helps potentiate the action of IGFI on smooth muscle cells, fibroblasts or osteoblasts. Data shows that IGFBP5 acts as a growth inhibitor and pro-apoptotic agent in breast cancer cells. IGFBP5 overexpressing mice show an increase in neonatal mortality, reduced female fertility, whole-body growth inhibition and retarded muscle development. Function : IGF-binding proteins prolong the half-life of the IGFs and have been shown to either inhibit or stimulate the growth promoting effects of the IGFs on cell culture. They alter the interaction of IGFs with their cell surface receptors.

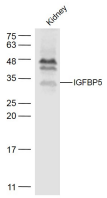
Applications: **WB** (1:500-2000)

Reactivity: Human, Mouse (predicted: Rat, Pig, Sheep, Cow, Chicken, Dog, Horse)

Predicted MW.: 30 kDa

Subcellular Location: Secreted

VALIDATION IMAGES



Sample: Kidney (Mouse) Lysate at 40 ug Primary: Anti- IGFBP5 (bs-0406R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 30 kD Observed band size: 30 kD

SELECTED CITATIONS

- **[IF=3.3]** Wu Cuiling. et al. Regulation of secondary hair follicle cycle in cashmere goats by miR-877-3p targeting IGFBP5 gene. J ANIM SCI. 2023 Sep;: WB ;Goat. 37777862
- **[IF=2.8]** Zhang Junrui. et al. Targeting miR-103a-3p/IGFBP5 axis: a potential therapeutic strategy for gastric cancer progression. Discover Oncology. 2025 Dec;16(1):1-12 ;. 40263134
- **[IF=0]** Yamada, Koichi, et al. "Genetic and Phenotypic Changes of Thymus Tissue in Mice during Pregnancy." Journal of Oral Health and Biosciences 30.1 (2017): 26-32. IHC ;="Mouse". JournalofOralHealthandBiosciences30.1(2017):26-32.