

## Rabbit Anti-IGFBP5 antibody

SL0406R

**Product Name** IGFBP5

**Chinese Name** 胰岛素样生长因子 Binding protein5 抗体

**Alias** IBP 5; IBP5; IGF binding protein 5; IGF BP5; Insulin Like Growth Factor Binding Protein 5; IBP5\_HUMAN; Insulin-like growth factor-binding protein 5; IBP-5; IGF-binding protein 5; IGFBP-5.

**Research Area** Tumour immunology Signal transduction Growth factors and hormones transcriptional regulatory factor Diabetes

**Immunogen Species** Rabbit

**Clonality** Polyclonal

**React Species** Human, Mouse, (predicted: Rat, Dog, Pig, Cow, Sheep, )

WB=1:500-2000 (Paraffin sections need antigen repair)

**Applications** not yet tested in other applications.  
optimal dilutions/concentrations should be determined by the end user.

**Theoretical molecular weight** 30kDa

**Cellular localization** Secretory protein

**Form** Liquid

**Concentration** 1mg/ml

**immunogen** KLH conjugated synthetic peptide derived from human IGFBP5: 101-200/272

**Lsotype** IgG

**Purification** affinity purified by Protein A

**Buffer Solution** 1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.

**Storage** Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

**Attention** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

**PubMed** [PubMed](#)

**Product** IGFBP5 is one of a family of proteins that bind to insulin-like growth factors (IGFs).

---

**Detail**

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 IGF1 and IGF2. IGFBP5 is the major IGF-binding protein present in bone tissue and helps potentiate the action of IGF1 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.

**Subcellular Location:**

Secreted.

**Tissue Specificity:**

Osteosarcoma, and at lower levels in liver, kidney and brain.

**Similarity:**

Contains 1 IGFBP N-terminal domain.  
Contains 1 thyroglobulin type-1 domain.

**SWISS:**

P24593

**Gene ID:**

3488

**Database links:**

[Entrez Gene: 3488](#) Human

[Entrez Gene: 16011](#) Mouse

[Entrez Gene: 25285](#) Rat

[Omim: 146734](#) Human

[SwissProt: P24593](#) Human

[SwissProt: Q07079](#) Mouse

[SwissProt: P24594](#) Rat

[Unigene: 607212](#) Human

[Unigene: 405761](#) Mouse

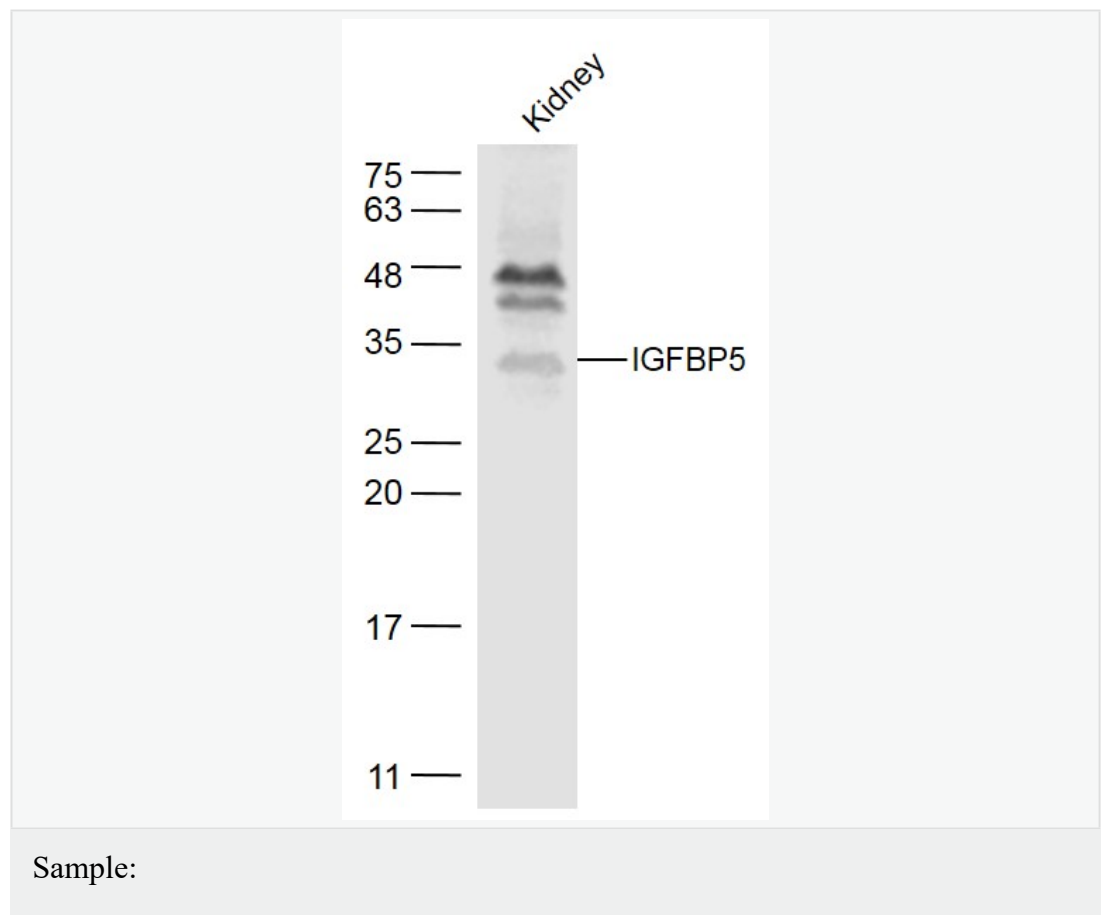
[Unigene: 1593](#) Rat

### Growth factors and hormones ( Growth Factor and Hormones )

IGFBP5 胰岛素样生长因子 Binding protein5(IGFBP-5)是一种可以与胰岛素样生长因子(IGFs)结合的分泌性蛋白,其通过 IGFs 调节细胞的生长、分化、凋亡、黏附和运动,IGFBP-5 与 IGFs 结合可以调节 IGFs 与 IGF-I 型受体间的相互作用,改变其促有丝分裂效应、凋亡抑制效应和促细胞运动作用。

有人认为: 由于造骨细胞能表达与 IGF-1 受体截然不同的 IGFBP-5 受体, IGFBP-5 本身也是一种生长因子,能够不依赖 IGF-I 独立作用来调节骨代谢。

**Product  
Picture**



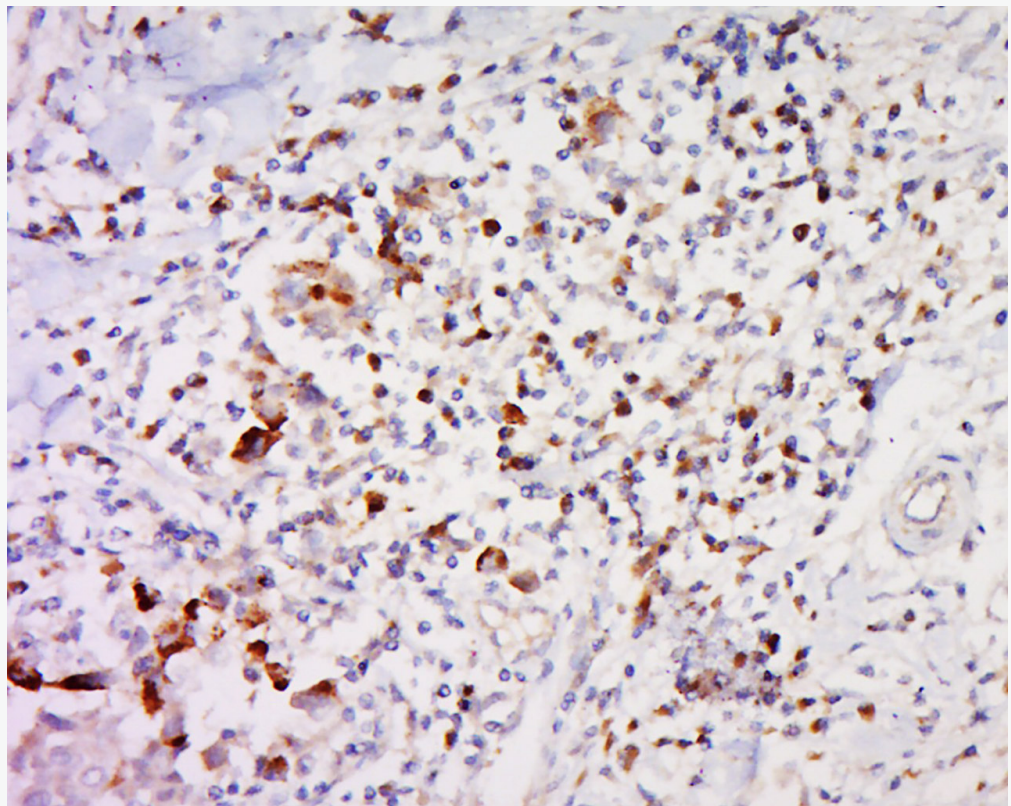
Kidney (Mouse) Lysate at 40 ug

Primary: Anti- IGFBP5 (SL0406R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 30 kD

Observed band size: 30 kD

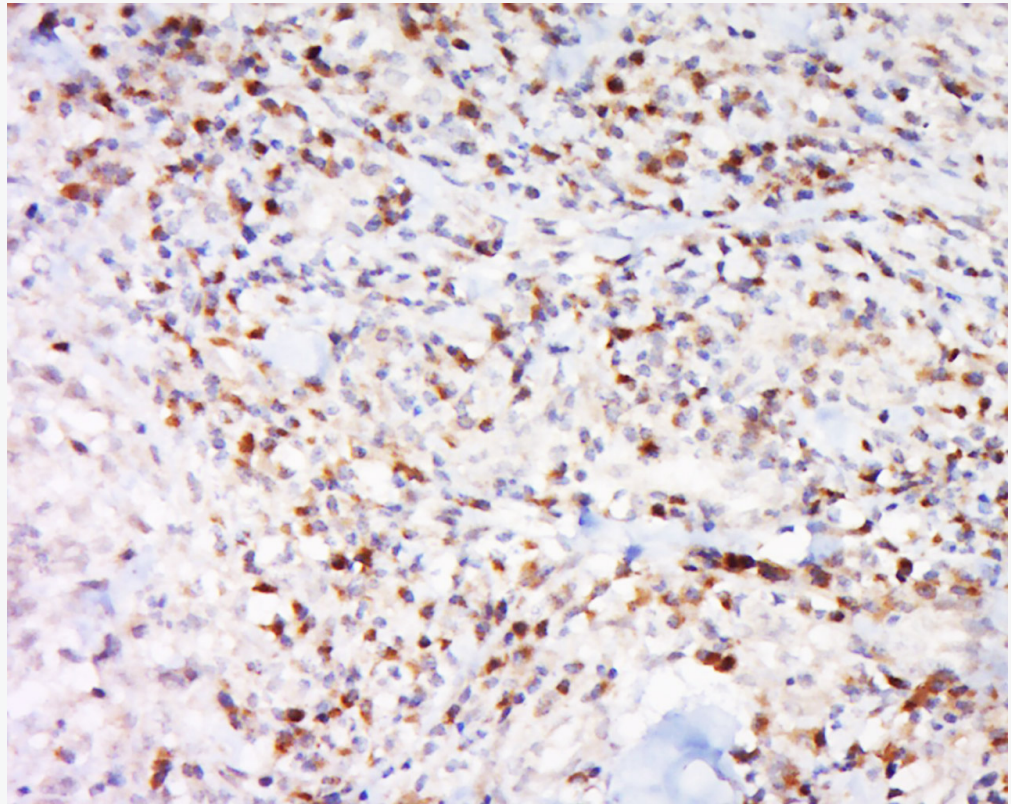


Tissue/cell: human breast carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer ( 1M, 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;

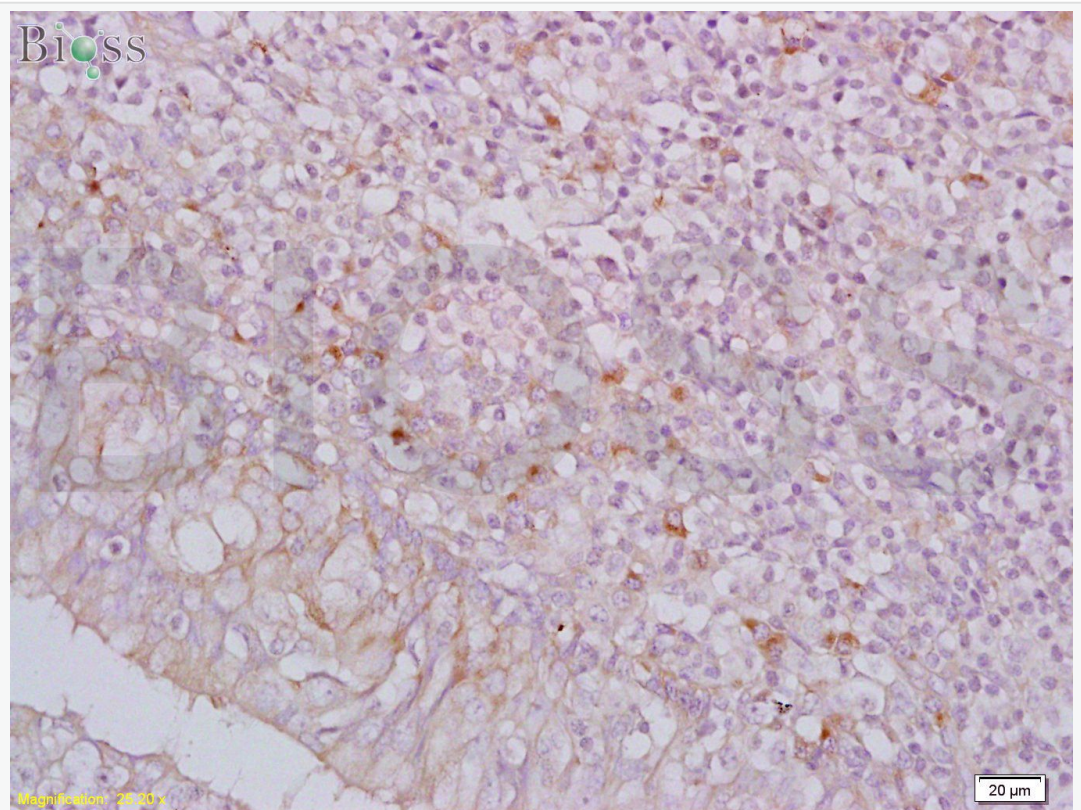
Incubation: Anti-IGFBP5 Polyclonal Antibody, Unconjugated(SL0406R) 1:500, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: human colon carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer ( 1M, 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-IGFBP5 Polyclonal Antibody, Unconjugated(SL0406R) 1:500, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: human nasopharyngeal carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer ( 1M, 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-IGFBP5/IBP5 Polyclonal Antibody, Unconjugated(SL0406R)



1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining