



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.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	30kDa
Cellular localization:	Secretory protein
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human IGFBP5:101-200/272
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	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.

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

Important Note:

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

Growth factors and hormones (Growth Factor and Hormones)

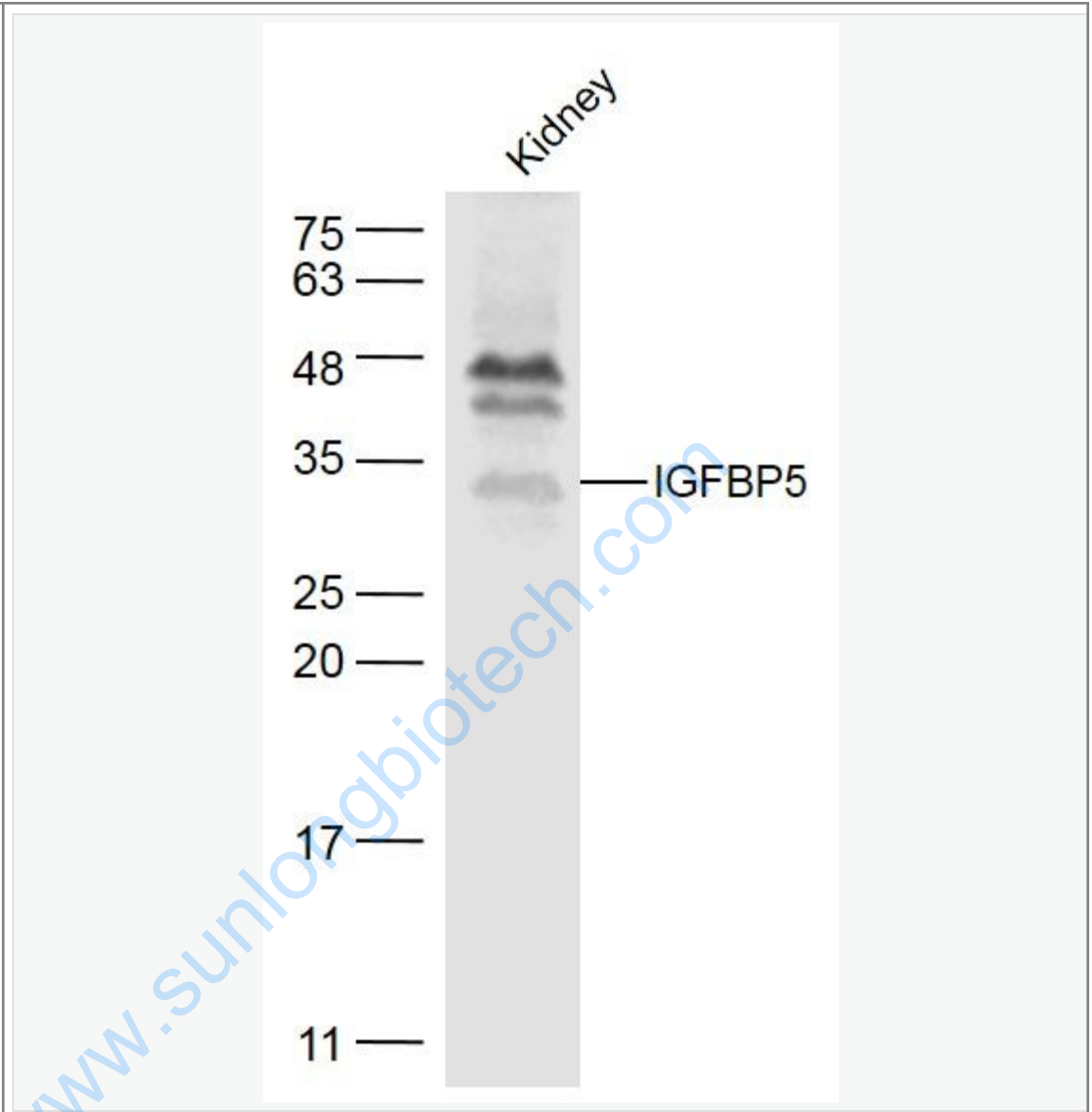
IGFBP5胰岛素样生长因子Binding protein5(IGFBP-

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。

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Picture:



Sample:

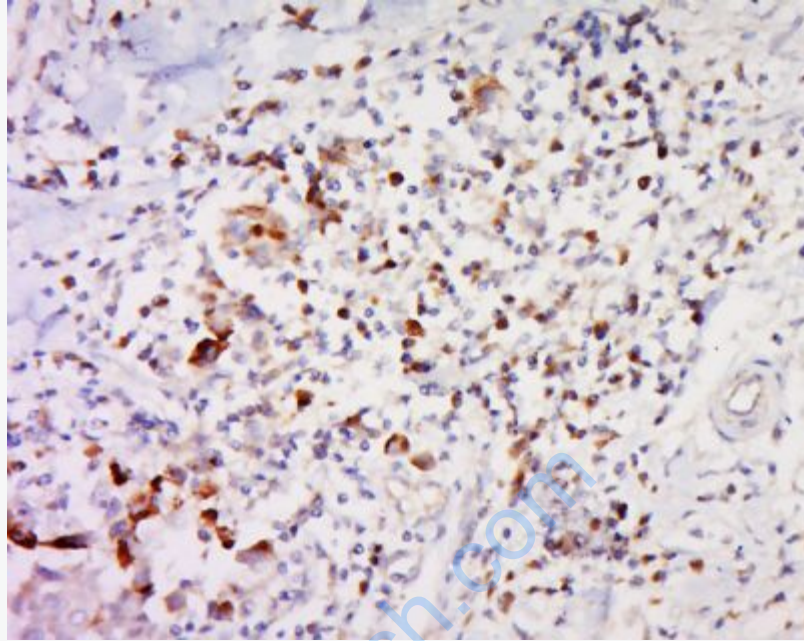
Kidney (Mouse) Lysate at 40 ug

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

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

Predicted band size: 30 kD

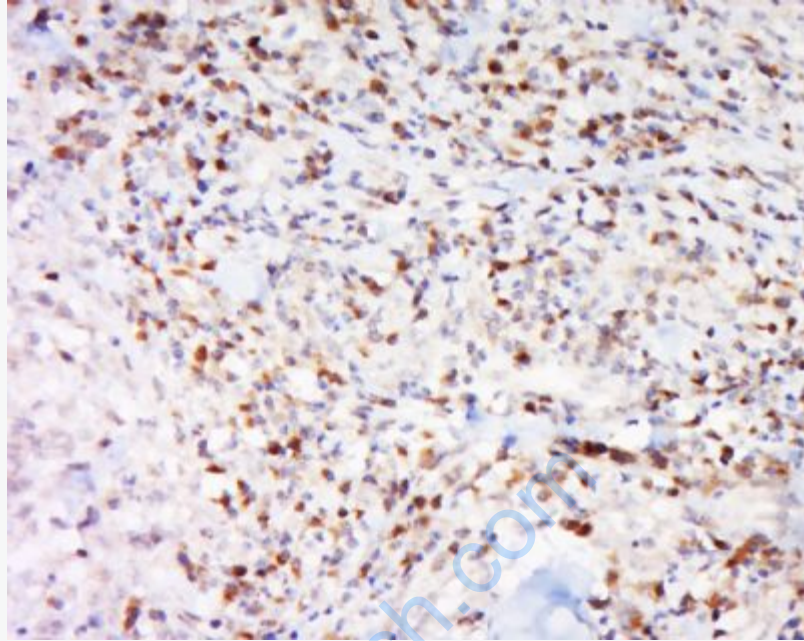
Observed band size: 30 kD



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

Antigen retrieval: citrate buffer (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;

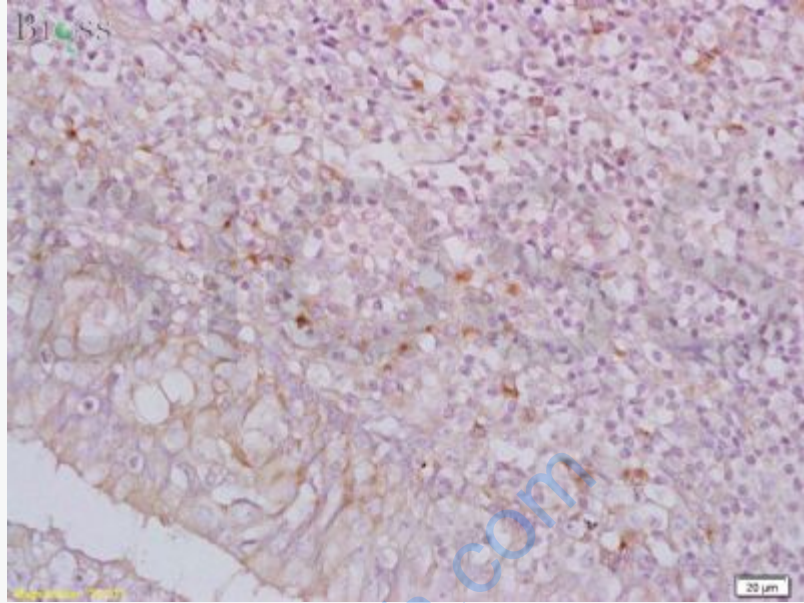
Incubation: Anti-IGFBP5 Polyclonal Antibody, Unconjugated(SL0406R) 1:500, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



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

Antigen retrieval: citrate buffer (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-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 (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-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