

## Rabbit Anti-IGFBP4 antibody

SL10585R

**Product Name** IGFBP4

**Chinese Name** 胰岛素样生长因子 Binding protein4 抗体

**Alias** Insulin-like Growth Factor Binding Protein 4; BP 4; BP4; HT29 IGFBP; IBP 4; IBP4; IGF binding protein 4; IGFBP 4; IBP4\_HUMAN.

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

**Immunogen Species** Rabbit

**Clonality** Polyclonal

**React Species** Mouse, Rat, (predicted: Human, Chicken, Pig, Cow, Horse, Sheep, )  
WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 (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** 26kDa

**Cellular localization** Secretory protein

**Form** Liquid

**Concentration** 1mg/ml

**immunogen** KLH conjugated synthetic peptide derived from human IGFBP4: 181-254/254

**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** Insulin like growth factor binding protein 4 (IGFBP4) is produced from a DNA

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## Detail

sequence encoding the human IGFBP4 protein. Mature human IGFBP4 has a calculated molecular mass of approximately 26 kDa. Due to glycosylation, the recombinant protein migrates as a 32 kDa and 25 kDa protein under reducing and non reducing conditions, respectively. Human IGFBP4 has a potential N-linked glycosylation site and shares approximately 90% amino acid sequence identity with both mouse and rat IGFBP4. IGFBP4 is a member of the superfamily of insulin-like growth factor (IGF) binding proteins which include six high affinity IGF binding proteins (IGFBP) and at least four low affinity binding proteins referred to as IGFBP related proteins (IGFBPrP). IGFBP4 functions as an inhibitor of IGF action and its main function may be to protect cells from overstimulation by IGFs or to allow activation of alternate transmembrane signaling pathways that are inhibited by IGF exposure. IGFBP4 is expressed in multiple tissues including adrenal, testis, spleen, heart, lung, kidney, liver, stomach, hypothalamus, and brain cortex.

### 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.

### Subunit:

Binds IGF2 more than IGF1.

### Subcellular Location:

Secreted.

### Similarity:

Contains 1 IGFBP N-terminal domain.

Contains 1 thyroglobulin type-1 domain.

### SWISS:

P22692

### Gene ID:

3487

### Database links:

[Entrez Gene: 374271](#) Chicken

[Entrez Gene: 282262](#) Cow

[Entrez Gene: 3487](#) Human

[Entrez Gene: 16010](#) Mouse

[Entrez Gene: 360622](#) Rat

[Entrez Gene: 443470](#) Sheep

[Omim: 146733](#) Human

[SwissProt: Q05716](#) Cow

[SwissProt: P22692](#) Human

[SwissProt: P47879](#) Mouse

[SwissProt: P24854](#) Pig

[SwissProt: P21744](#) Rat

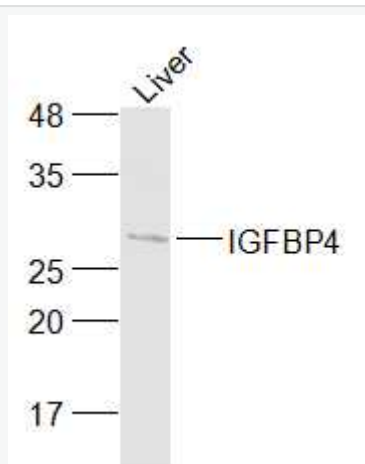
[SwissProt: Q28893](#) Sheep

[Unigene: 462998](#) Human

[Unigene: 233799](#) Mouse

[Unigene: 160666](#) Rat

## Product Picture



Sample:

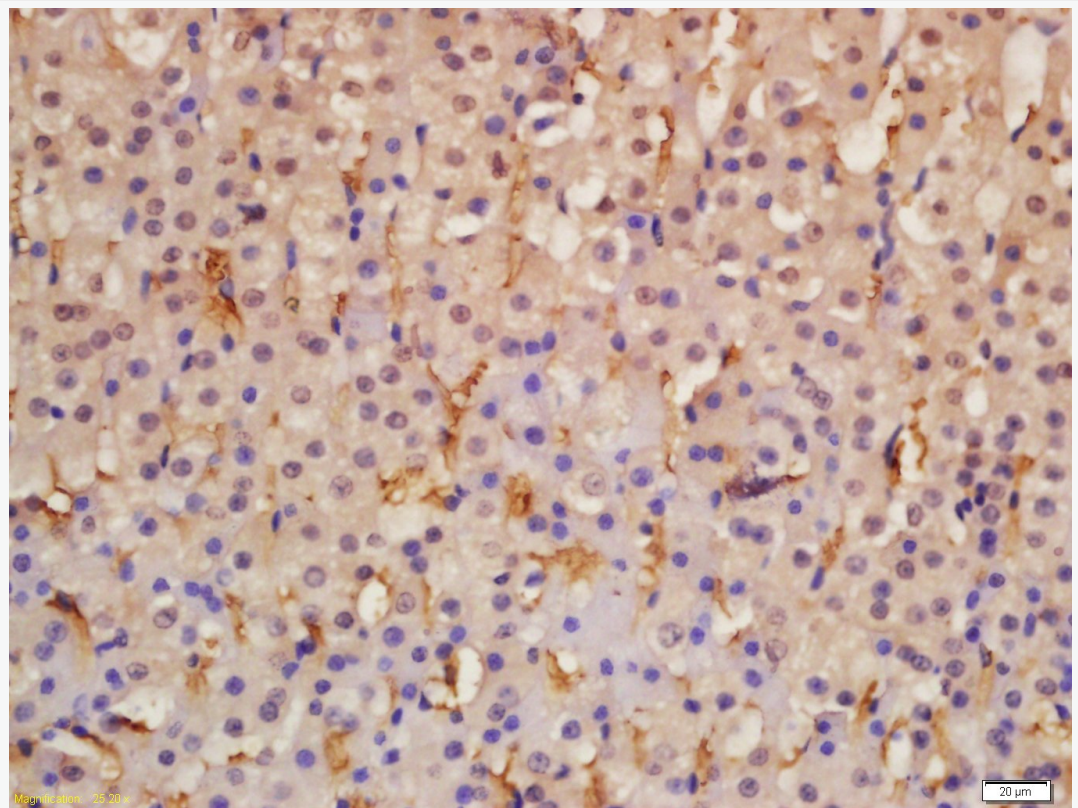
Liver (Mouse) Lysate at 40 ug

Primary: Anti-IGFBP4 (SL10585R) at 1/1000 dilution

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

Predicted band size: 26 kD

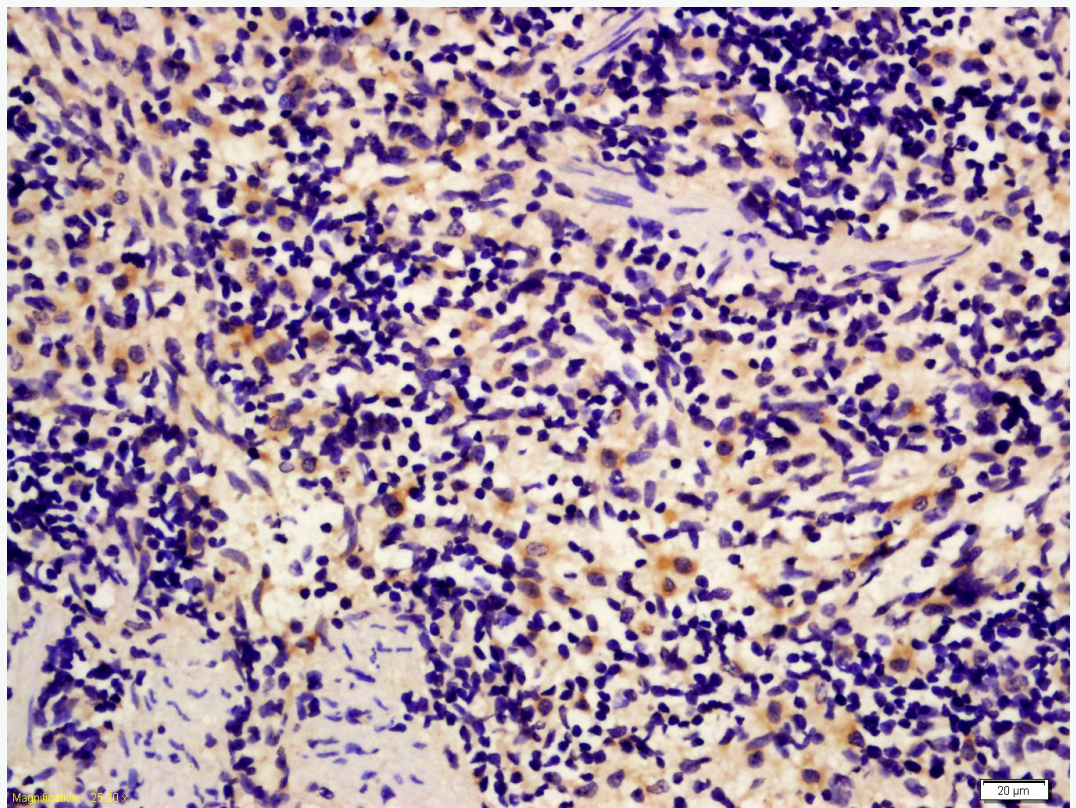
Observed band size: 27 kD



Tissue/cell: Rat adrenal tissue; 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-IGFBP4 Polyclonal Antibody, Unconjugated(SL10585R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: Rat spleen tissue; 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-IGFBP4 Polyclonal Antibody, Unconjugated(SL10585R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining