

## Rabbit Anti-HOXc8 antibody

SL0394R

**Product Name** HOXc8

**Chinese Name** HOXc8 抗体

**Alias** Hox-3.1; Homeo box 3A; Homeo box 8; Homeobox 3A; Homeobox C8; Homeobox protein Hox C8; Homeobox protein Hox-C8; Homeobox protein HoxC8; Homeobox protein R4; Homolog of mouse Hox 3.1; HOX 3; Hox 3.1 mouse homolog of; HOX 3A; HOX C8; Hox-3.1, MOUSE, HOMOLOG OF; Hox-3A; HOX3; HOX3A; HOXC 8; Hoxc-8; M31; HXC8\_HUMAN.

**Research Area** immunology Neurobiology transcriptional regulatory factor

**Immunogen Species** Rabbit

**Clonality** Polyclonal

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

**Applications** WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 (Paraffin sections need antigen repair)  
not yet tested in other applications.  
optimal dilutions/concentrations should be determined by the end user.

**Theoretical molecular weight** 27kDa

**Cellular localization** The nucleus

**Form** Liquid

**Concentration** 1mg/ml

**immunogen** KLH conjugated synthetic peptide derived from human HOXc8: 51-130/242

**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](#)

This gene belongs to the homeobox family of genes. The homeobox genes encode a highly conserved family of transcription factors that play an important role in morphogenesis in all multicellular organisms. Mammals possess four similar homeobox gene clusters, HOXA, HOXB, HOXC and HOXD, which are located on different chromosomes and consist of 9 to 11 genes arranged in tandem. This gene is one of several homeobox HOXC genes located in a cluster on chromosome 12. The product of this gene may play a role in the regulation of cartilage differentiation. It could also be involved in chondrodysplasias or other cartilage disorders.

**Function:**

Sequence-specific transcription factor which is part of a developmental regulatory system that provides cells with specific positional identities on the anterior-posterior axis.

**Subunit:**

Interacts with SMAD1 and HOMEZ.

**Subcellular Location:**

Nucleus.

**Product  
Detail**

**Similarity:**

Belongs to the Antp homeobox family.  
Contains 1 homeobox DNA-binding domain.

**SWISS:**

P31273

**Gene ID:**

3224

**Database links:**

[Entrez Gene: 607052](#) Dog

[Entrez Gene: 3224](#) Human

[Entrez Gene: 15426](#) Mouse

[Omim: 142970](#) Human

[SwissProt: P31273](#) Human

[SwissProt: P09025](#) Mouse

[Unigene: 664500](#) Human

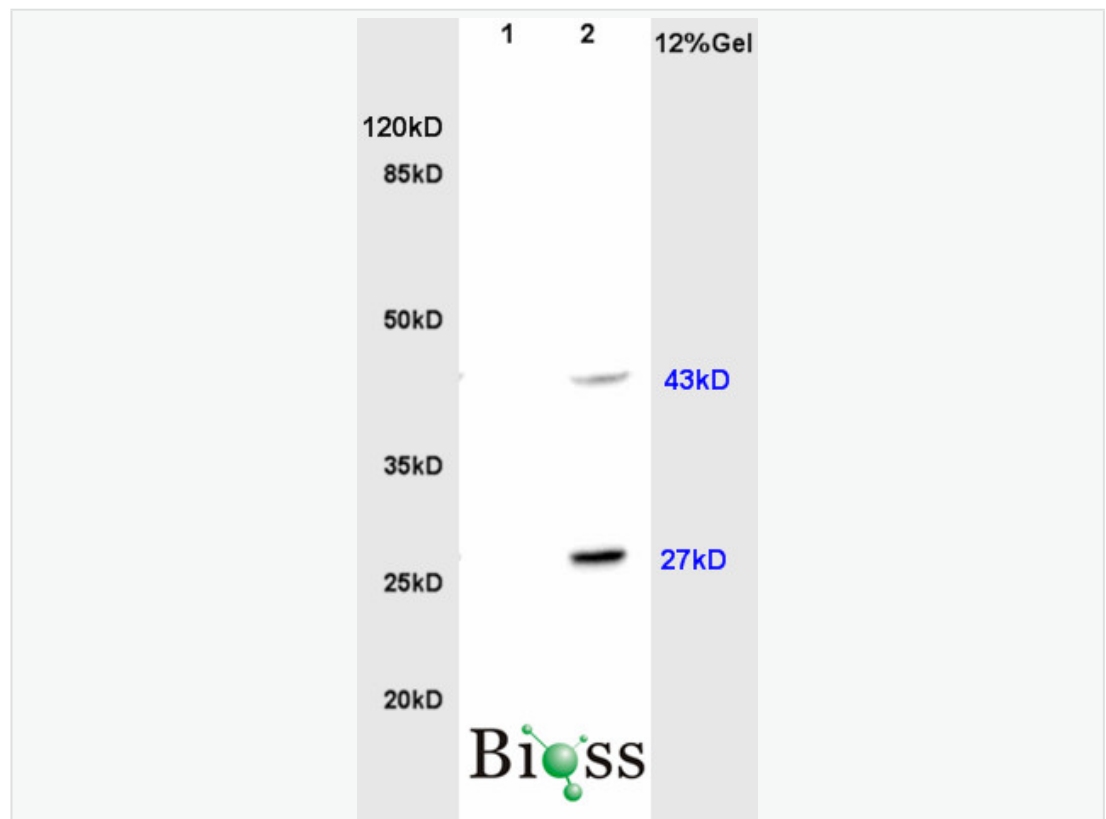
[Unigene: 6167](#) Mouse

HOXc8 基因是 HOX 基因家族中的一员, 研究小鼠中 HOXc8 蛋白的位置、结构以及 HOXc8 蛋白在小鼠胚胎发育中的表达与调控、小鼠神经系统的发育均已被广泛重视.

HOXc8 蛋白的表达对 APP 基因的表达有抑制作用,有学者认为 HOXc8 基因可能与 Alzheimer's 病的发病有关.

目前对哺乳动物同源盒基因在中枢神经系统发育中的广泛表达以及在胚胎发育中的区域特异性表达方式被认为是非常重要的, 已引起科学家们的广泛重视。

Product  
Picture



Sample:

Brain(Rat) lysate at 30ug;

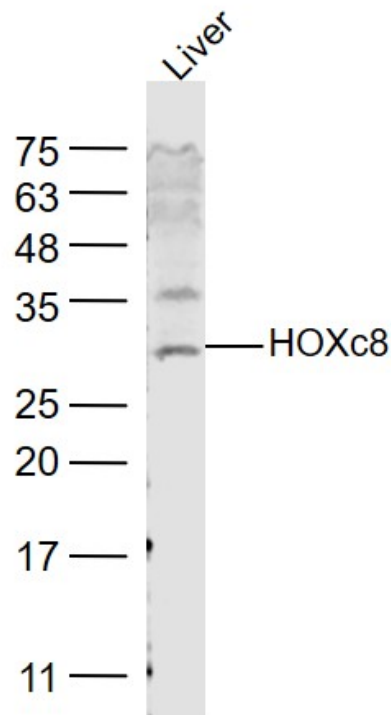
Liver(Rat) lysate at 30ug;

Primary: Anti-HOXc8 (SL0394R) at 1:200;

Secondary: HRP conjugated Goat-Anti-Rabbit IgG(bse-0295G) at 1: 3000;

Predicted band size : 27kD

Observed band size : 27kD, 43kD



Sample:

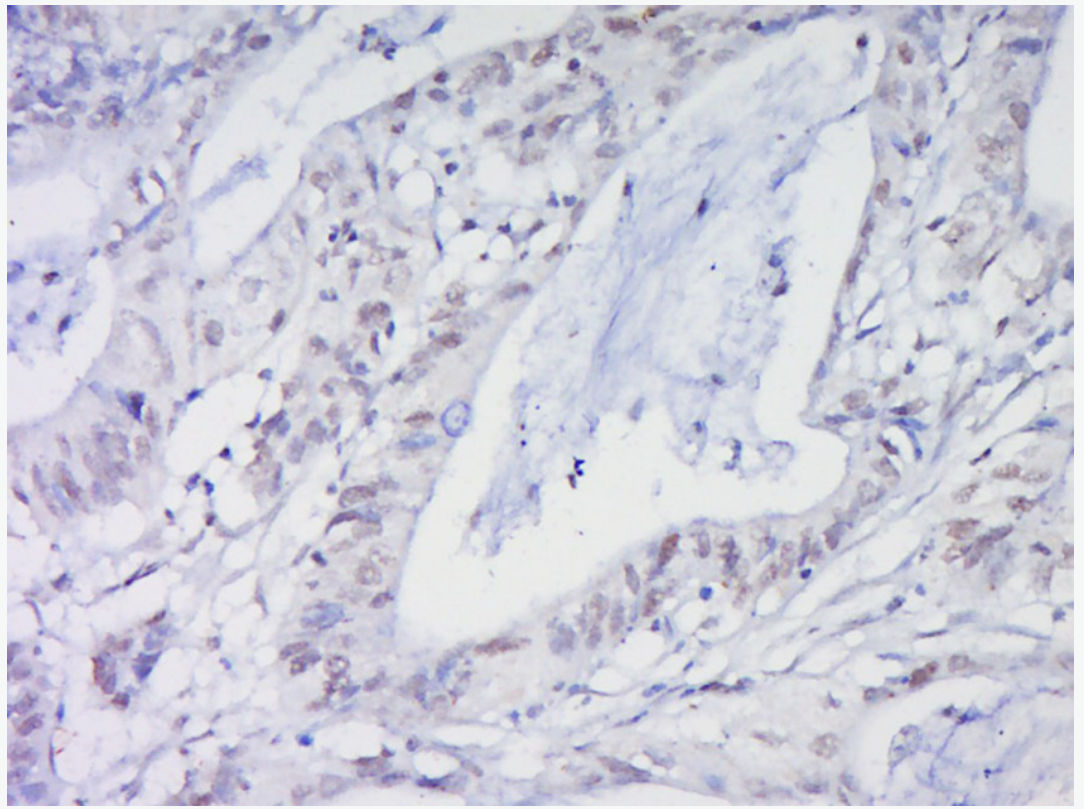
Liver(Rat) Lysate at 40 ug

Primary: Anti-HOXc8 (SL0394R) at 1/500 dilution

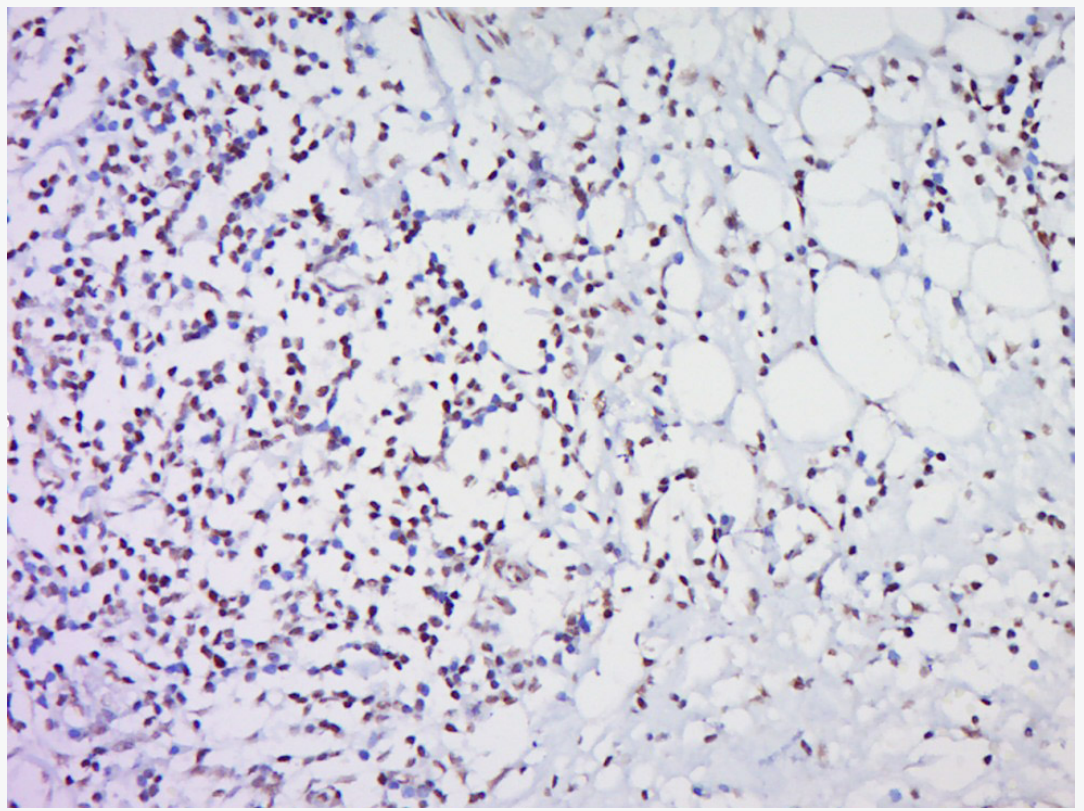
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 27 kD

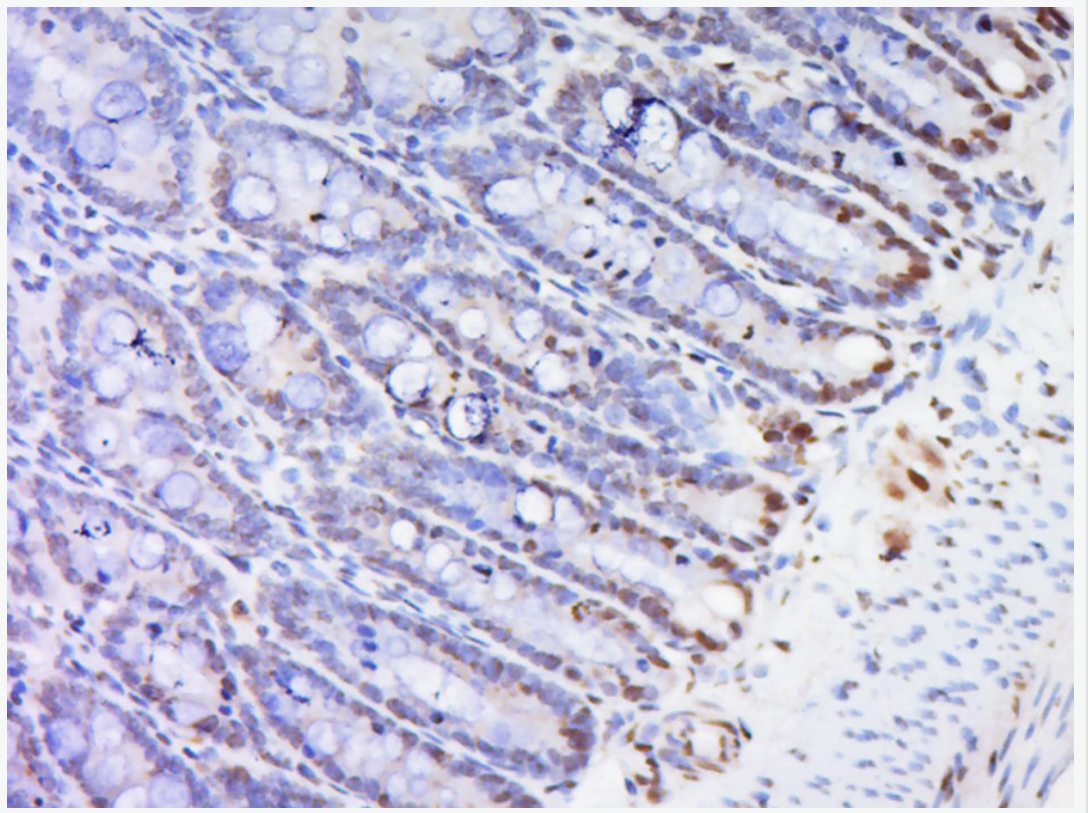
Observed band size: 27 kD



Paraformaldehyde-fixed, paraffin embedded (Human cervical cancer); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Histone H3) Polyclonal Antibody, Unconjugated (SL0394R) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Human cervical cancer); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Hox-3.1) Polyclonal Antibody, Unconjugated (SL0394R) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



Paraformaldehyde-fixed, paraffin embedded Rat small intestine; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer normal goat serum at 37°C for 30min; Antibody incubation with (Hox-3.1) Polyclonal Antibody, Unconjugated (SL0394R) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.