



Rabbit Anti-Gbx2 antibody

SL11849R

Product Name:	Gbx2
Chinese Name:	肠和大脑特定同源蛋白2抗体
Alias:	Gastrulation and brain-specific homeobox protein 2; Gastrulation brain homeo box 2 ; Gastrulation brain homeo box 2; gbx2; GBX2_HUMAN; Homeobox protein GBX 2 ; Homeobox protein GBX 2; Homeobox protein GBX-2; Homeobox protein STRA7; Mmoxa.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Rabbit,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow-Cyt=1µg/TestICC=1:100-500IF=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:	37kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Gbx2:251-348/348
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:	The isthmus organizer signals at the mid/hindbrain boundary (MHB) regulate the development and differentiation of the vertebrate caudal midbrain and the anterior hindbrain. The MHB forms at the boundary of expression between homeobox genes Gbx2 and Otx2. Gbx2 and Otx2 play distinct, essential roles in MHB positioning and

development. During development, the GBX2 gene is expressed in the anterior hindbrain. Specifically, Gbx2 negatively regulates Otx2 expression along the anterior-posterior axis; Gbx2(-) mutants demonstrate an expanded Otx2 domain. During development, the GBX2 gene is expressed in the anterior hindbrain. Gbx2 is expressed in the adult brain, spleen and female genital tract. The GBX2 gene is over-expressed in human prostate cancer cell lines (TSU-pr1, PC3, DU145 and LNCaP). Furthermore, downregulation of Gbx2 expression restricts tumorigenicity in human prostate cancer cell lines, which suggests that Gbx2 expression may be required for growth of malignant prostate cells.

Function:

May act as a transcription factor for cell pluripotency and differentiation in the embryo.

Subunit:

May act as a transcription factor for cell pluripotency and differentiation in the embryo.

Subcellular Location:

Nucleus.

Similarity:

Contains 1 homeobox DNA-binding domain.

SWISS:

P52951

Gene ID:

2637

Database links:

[Entrez Gene: 486174](#)Dog

[Entrez Gene: 2637](#)Human

[Entrez Gene: 14472](#)Mouse

[Omim: 601135](#)Human

[SwissProt: P52951](#)Human

[SwissProt: P48031](#)Mouse

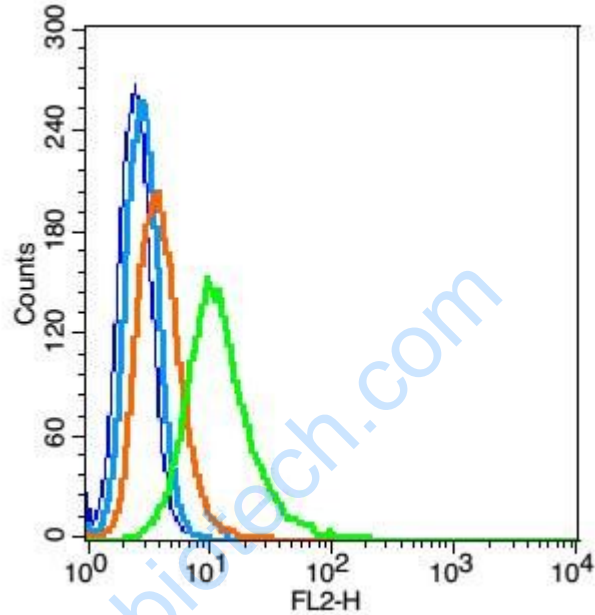
[Unigene: 184945](#)Human

[Unigene: 204730](#)Mouse

Important Note:

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

Picture:



Blank control(blue): Rsc96 (fixed with 2% paraformaldehyde (10 min) , then permeabilized with 90% ice-cold methanol for 30 min on ice).

Primary Antibody:Rabbit Anti-Gbx2 antibody(SL11849R), Dilution: 1 μ g in 100 μ L 1X PBS containing 0.5% BSA;

Isotype Control Antibody: Rabbit IgG(orange) ,used under the same conditions);

Secondary Antibody: Goat anti-rabbit IgG-PE(white blue), Dilution: 1:200 in 1 X PBS containing 0.5% BSA.