

Anti-Gbx2 Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Rat (predicted: Human, Mouse, Chicken, Dog, Pig, Cow, Horse, Rabbit, Sheep)
Molecular Weight:	Theoretical: 37 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	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, Dilution: 1 µg in 100 µL 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.
Application:	FCM
Recommended	FCM: 1µg/Test

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human Gbx2
Antigen Species:	Human
Gene ID:	2637
Uniprot ID:	P52951

Research Background

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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