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Rabbit Anti-Gbx2/Cy5 Conjugated antibody

SL11849R-Cy5

Product Name	Anti-Gbx2/Cy5
Chinese Name	Cy5 标记的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.
Research Area	Tumour Cell biology Developmental biology Neurobiology Signal transduction Epigenetics
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Rat(predicted:Human,Mouse,Chicken,Dog,Pig,Cow,Horse,Rabbit,Sheep)
Applications	Flow-Cyt=1μg/Test not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	37kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human Gbx2
Lsotype	IgG
Purification	affinity purified by Protein A
Storage Buffer	1M TBS(pH7.4) with 1% BSA, 3% 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 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Product Detail	**background:** The isthmic 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-prl, 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.

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

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Important Note:

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