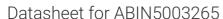
# antibodies -online.com





# anti-GBX2 antibody (AA 251-348) (Alexa Fluor 680)



Go to Product page

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	N/P	r\/	i⊢₩

Quantity:	100 μL
Target:	GBX2
Binding Specificity:	AA 251-348
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GBX2 antibody is conjugated to Alexa Fluor 680
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p))

#### **Product Details**

Immunogen:	KLH conjugated synthetic peptide derived from human Gbx2
Isotype:	IgG
Cross-Reactivity:	Rat
Predicted Reactivity:	Human,Mouse,Dog,Cow,Sheep,Pig,Horse,Chicken,Rabbit
Purification:	Purified by Protein A.

### **Target Details**

Target:	GBX2
Alternative Name:	Gbx2 (GBX2 Products)

#### **Target Details**

Background:

Synonyms: Gastrulation and brain-specic homeobox protein 2, Gastrulation brain homeo box 2, Gastrulation brain homeo box 2, gbx2, GBX2\_HUMAN, Homeobox protein GBX 2, Homeobox protein GBX 3, Homeobox protein GBX 4, Homeobox protein GBX 6, Homeobox protein GBX 6, Homeobox protein GBX 6, Homeobox protein GBX 7, Mmoxa.

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.

Pathways:

Dopaminergic Neurogenesis

#### **Application Details**

**Application Notes:** 

FCM 1:20-100

IF(IHC-P) 1:50-200

IF(IHC-F) 1:50-200

IF(ICC) 1:50-200

Restrictions:

For Research Use only

#### Handling

Format:	Liquid
Concentration:	1 μg/μL
Buffer:	Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

## Handling

Storage:	-20 °C
Storage Comment:	Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.
Expiry Date:	12 months