

## Product Information

### Anti-GBX2

Developed in Rabbit, Affinity isolated antibody

Product Number **G3544**

### Product Description

Anti-GBX2 is developed in rabbit using a synthetic peptide, STRRRQRPASSRRSRC corresponding to human GBX2 (amino acids 117-132) conjugated to BSA as immunogen. The antibody is affinity-purified using the immunizing peptide immobilized on resin.

Anti-GBX2 specifically recognizes GBX2 (38.9 kDa) by immunoblotting and immunohistochemistry. The antibody recognizes human and rodent GBX2. Other species reactivity has not been confirmed.

GBX2 (Gastrulation brain homeobox 2) is a homeobox protein is likely to act as a transcription factor for cell pluripotency and differentiation in the embryo. GBX1 and GBX2 are overexpressed in a panel of human prostatic cancer cell lines (ie., TSU-pr1, PC3, DU145, and LNCaP). GBX2 is expressed in all three germ layers of the late gastrula/early neurula stage of embryogenesis. Gbx2 is a downstream target gene of Fgf8, Fgf4, or both.

### Reagent

Anti-GBX2 is provided as affinity isolated antibody in a 50% ammonium sulfate suspension in phosphate buffered saline, containing no additional preservatives.

### Preparation Instructions

#### Method 1 for immunostaining and immunoblotting (Western blot)

1. Carefully resuspend antibody pellet to uniformity.
2. Remove a fixed amount of suspension and dissolve 1:10 in PBS or TBS to yield a 100 µg/ml solution.

#### Method 2 for immunoprecipitation, supershift, immunostaining and immunoblotting (Western blot)

1. Pellet antibodies at 10,000 – 15,000 x g for 10 minutes at 2 to 8 °C using a microcentrifuge.
2. Carefully remove as much supernatant as possible. It is not necessary to remove all the ammonium sulfate solution; a small residual

amount will not effect the antibody preparation. Dissolve the pellet (antibody) in small volume (100 µL) of PBS (or TBS) at final concentration of 1 mg/ml (100 µg/100 µl). Do not allow the pellet to dry out. This can cause loss of activity. Gently allow pellet to dissolve at least 1 hour before use. Do not vortex. Mix by finger-tapping or gentle stirring.

### Notes:

- Reconstituted antibody may be stored at 2 to 8 °C for up to one month. Addition of a preservative (15 mM sodium azide) may be necessary.
- For extended storage, add an equal volume of high purity glycerol, to a final concentration of 50% and BSA to a final concentration of 1% and store at –20 °C.
- During shipment, small volumes will occasionally become entrapped in the seal of the product vial. We recommend briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.

### Storage/Stability

Store ammonium sulfate suspension at 2 to 8 °C for up to one month.

For extended storage, freeze in working aliquots. Reconstituted and diluted antiserum should be stored in aliquots at –20 °C.

### Product Profile

Recommended dilutions are 1:200 to 1:1,000 for immunoblotting and immunohistochemistry.

Note: In order to obtain best results and assay sensitivity in different techniques and preparations we recommend determining optimal working dilutions by titration test.

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