PRODUCT INFORMATION

Product name: GBX2 antibody

Product type: Primary antibodies

Description: Rabbit polyclonal to GBX2

Immunogen: 3 synthetic peptides (human) conjugated to KLH

Reacts with: Human, Mouse

Tested applications: ELISA, WB and IF

GENE INFORMATION

Gene Symbol: GBX2

Gene Name: gastrulation brain homeobox 2

Ensembl ID: ENSG00000168505

Entrez GeneID: 2637

GenBank Accession number: AF118452

Omim ID: 601135 Swiss-Prot: P52951

Molecular weight of GBX2: 37.3kDa

Function: May act as a transcription factor for cell pluripotency and differentiation in the

embryo

Expected subcellular localization: Nucleus

Recommended dilution:

- ELISA: Antibody specificity was verified by direct ELISA against the 3 immunogen peptides. A minimum titer of 1/4000 is determined. Appropriate specificity controls were run.
- WB: 1/2000.IF: 1/500.

Optimal dilutions/concentration should be determined by the end user.

Raised in: Rabbit

Clonality: Polyclonal

Isotype: IgG

Purity: Purified Antibody

Storage buffer: 0.5 X PBS, 50% glycerol containing a final concentration of 0.1% BSA and

0.01% Thimerosal.

Form: Liquid

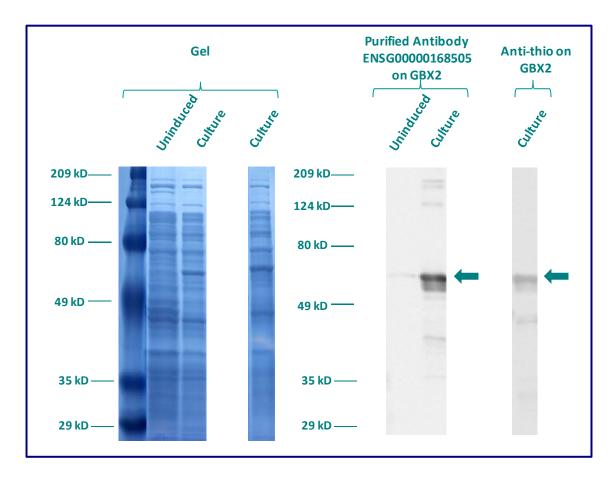
Storage instruction: Store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

The purified antibody ENSG00000168505 has been tested at 1/5000 on uninduced (negative control) and induced culture of E.coli (one shot Top10 competent cells).

An anti-thio has been tested at 1/5000 on induced culture of E.coli (one shot Top10 competent cells) as a positive control.

Plasmid name: pBAD-DEST49.

Molecular weight of GBX2: 51kDa (37kDa + another 14kDa for the tag).



Gel concentration: 10%

Blocking: in 5% non-fat milk-PBST solution

1st Antibody: The antibodies are diluted in blocking buffer.

- Dilute the purified antibody ENSG00000168505 at 1: 2000
- Dilute the anti-thio at 1:5000

60 minutes of incubation

2nd Antibody: The antibody is diluted in blocking buffer.

Dilute the anti-Rabbit IgG HRP conjugated at 1/10000

60 minutes of incubation

IMMUNOFLUORESCENCE ANALYSIS

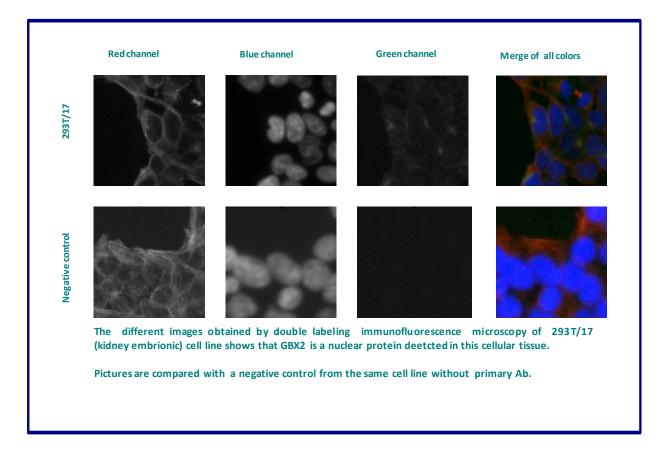
Immunofluorescence analysis of Homeobox protein GBX-2 (GBX2) expression in 5 cells lines (HELA, 293T/17, Capan-2, SAOS-2, Skin 3,44). The purified Antibody ENSG00000168505 has been tested at 1/1000.

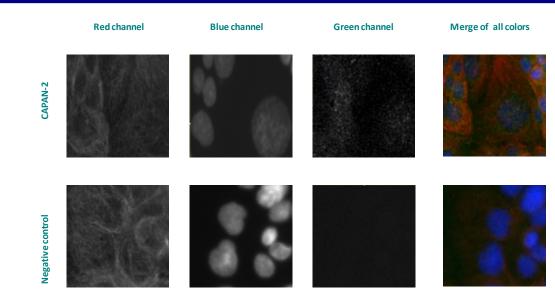
Red staining: cytoskeleton (microtubules/ α -tubuline)

Blue staining: nucleus (Hoechst)

Green staining: anti-GBX2 antibody (purified)

Expected subcellular location: Nucleus





The different images obtained by double labeling immunofluorescence microscopy of CAPAN- 2 (Pancreas adenocarcinoma) cell line shows that GBX2 is a nuclear and cytoplasmic protein deetcted in this cellular tissue.

Pictures are compared with a negative control from the same cell line without primary Ab.

Remaining cell lines tested gave a positive result with a nuclear and cytoplasmic distribution.