



Catalog Number:	GT15209	Host:	Goat
Product Type:	Affinity purified	Species Reactivity:	Human; Mouse; Rat
Immunogen Sequence:	Purified, <i>E. coli</i> -derived, recombinant human SRY (sex determining region Y) box 21 (rhSOX21; aa 2 - 276; Accession # NP_808421).	Format:	Liquid 1mg/ml Solution in phosphate-buffered saline (PBS) with 5% Trehlose
Applications:	Immunohistochemistry: 25 µg/mL Western Blot: 0.1 – 0.2 µg/mL ELISA: 0.5 - 1.0 µg/mL Dilutions listed as a recommendation.		

Dilutions listed as a recommendation. Optimal dilution should be determined by investigator.

Storage: Antibody can be aliquotted and stored frozen at -20° C to -70° C in a manual defrost freezer for six months without detectable loss of activity. The antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. *Avoid repeated freeze-thaw cycles.*

Application Notes

Direct ELISA

This antibody can be used at 0.5 - 1.0 µg/mL with the appropriate secondary reagents to detect HES-1. The detection limit for rhHES-1 is approximately 0.3 ng/well.

Western blot

This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect human HES-1. The detection limit for rhHES-1 is approximately 5 ng/lane under non-reducing and reducing conditions. In this format, this antibody shows less than 2% cross-reactivity with rhHES-2, rhHES-4 and rhHES-7.

Immunohistochemistry

The working dilution is 25 µg/mL. Cells were fixed with PBS containing 4% paraformaldehyde for 20 minutes at room temperature and blocked with PBS containing 10% normal donkey serum, 0.1% Triton X-100, and 1% BSA for 45 minutes at room temperature. After blocking, cells were incubated with diluted primary antibody overnight at 4° C followed by Rhodamine Red-coupled anti-goat IgG at room temperature in the dark for one hour. Between each step, cells were washed with PBS containing 0.1% BSA.

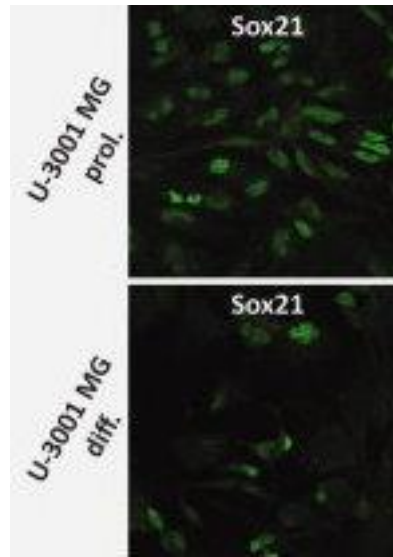
Description/Data:

The SOX (SRY-box containing gene) gene family encodes a group of transcription factors defined by the conserved high motility group (HMG) DNA-binding domain. They are involved in the regulation of embryonic development and in the determination of cell fate. SOX21 is a member of the B group of the SOX family HMG-box transcription factors. It is a 276 amino acid residue protein that has an N-terminal HMG-box and a C-terminal domain that is required for the SOX21 neurogenesis function. Human and mouse SOX 21 share 99% amino acid sequence identity.

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Image: Sox21 is expressed in primary glioma cells and the expression is reduced in differentiated cells. Immunofluorescence staining of human primary glioma cells; U-3001 MG at Passage 4.



Note: This antibody has been selected for its ability to recognize human SOX21 in IHC, direct ELISAs and western blots. In direct ELISAs and western blots, this antibody shows less than 1% cross-reactivity with rhSOX1, rhSOX2 and rhSOX15.

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