

Anti-human SOX17-NL557

Catalog Number: NL1924R

Lot Number: AAWU03

100 Tests in 50 μ L staining volume

20 Tests in 250 μ L staining volume

Reagents Provided

NorthernLights™ 557 (NL557)-conjugated goat polyclonal anti-human SOX17: Supplied as a 10X solution of antibody in 0.5 mL PBS containing 0.09% sodium azide.

Isotype: goat IgG

Storage

Reagents are stable for **twelve months** from date of receipt when stored in the dark at 2° - 8° C.

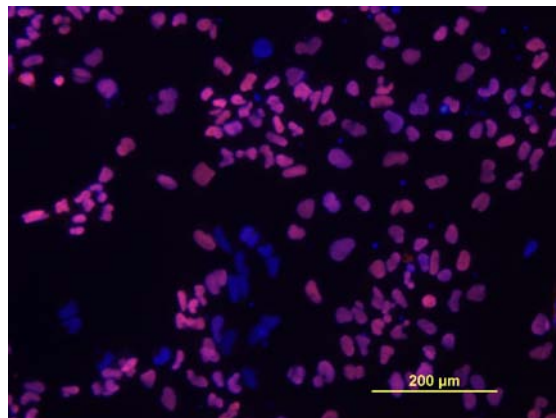
Intended Use

Designed to visualize the expression of human SOX17 by fluorescence microscopy.

Product Description

Produced in goats immunized with purified, *E. coli*-derived, recombinant human SRY (sex determining region Y)-box 17 (rhSOX17; aa 177 - 414). Human SOX17 specific IgG was purified by human SOX17 affinity chromatography. The purified antibody was then conjugated to fluorochrome NL557. The spectral characteristics of NL557 are provided, along with those of Rhodamine Red™-X (RRX) and Cy™3 for comparison.

Fluorochrome	Absorption Maximum (nm)	Emission Maximum (nm)
NL557	557	574
RRX	570	590
Cy3	548	562



Human SOX17-NL557

Definitive endoderm differentiated BG01V cells were stained with NL557-conjugated anti-human SOX17 (Catalog # NL1924R, red) and counterstained with DAPI (blue).

Background Information

SOX17 is a member of the SOX family of transcription factors that bind DNA via a high mobility group (HMG) domain.

SOX17 is suggested to play an important role in endoderm development.^{1,2}

References

1. Kanai-Azuma, M. *et al.* (2002) *Development* **129**:2367.
2. Katoh, M. *et al.* (2002) *Int. J. Mol. Med.* **9**:153.

Immunocytochemistry Validation

This antibody has been tested for immunocytochemistry using definitive endoderm differentiated BG01V cells. Cells were fixed in PBS containing 4% paraformaldehyde, and blocked with PBS containing 10% normal donkey serum, 0.1% Triton® X-100, and 1% BSA. After blocking, cells were incubated with NL557-conjugated antibody at a final concentration of 1X (1:10 dilution) in blocking buffer for 3 hours in the dark. Between each step, cells were washed with PBS containing BSA. If a staining volume of 250 μ L is used, this kit can be used for 20 tests; 100 tests can be done in a staining volume of 50 μ L.

Warning: Contains sodium azide as a preservative - sodium azide may react with lead and copper plumbing to form explosive metal azides. Flush with large volumes of water during disposal.

FOR RESEARCH USE ONLY. NOT FOR USE IN HUMANS.

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