

Anti-human SOX17-NL493

Catalog Number: NL1924G

Lot Number: ADEP01

100 Tests in 50 μ L staining volume

20 Tests in 250 μ L staining volume

Reagents Provided

NorthernLights™ 493 (NL493)-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 the date of receipt when stored in the dark at 2-8 °C.

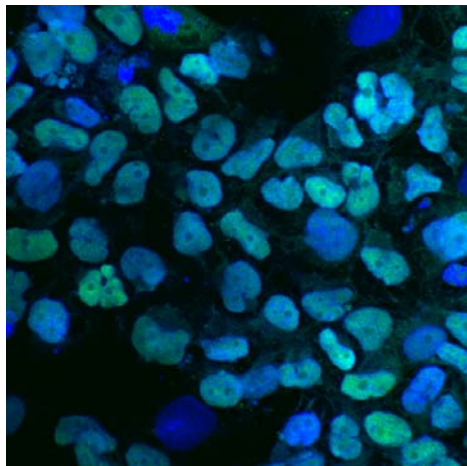
Intended Use

This product is 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 NL493. The spectral characteristics of NL493 are provided, along with those of FITC and Alexa Fluor® 488 for comparison.

Fluorochrome	Absorption Maximum (nm)	Emission Maximum (nm)
NL493	493	514
FITC	492	520
Alexa Fluor® 488	495	519



Human SOX17-NL493

Definitive endoderm differentiated BG01V cells were stained with NL493-conjugated anti-human SOX17 (Catalog # NL1924G; green) 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 NL493-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.

BG01V cells are licensed by ViaCyte, Inc.

All trademarks and registered trademarks are the property of their respective owners.

FOR RESEARCH USE ONLY. NOT FOR USE IN HUMANS.

R&D Systems Inc.
1-800-343-7475