

Anti-human Brachyury-NL557

Catalog Number: NL2085R

Lot Number: AAXR01

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 Brachyury: Supplied as 50 μ g of antibody in 0.5 mL PBS containing 0.1% 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.

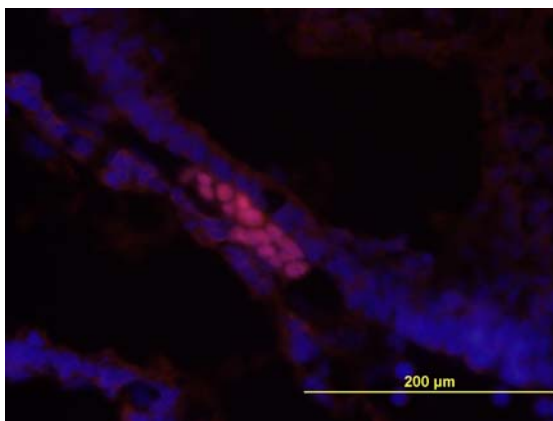
Intended Use

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

Product Description

Produced in goats immunized with purified, *E. coli*-derived, recombinant human Brachyury (rhBrachyury; aa 2 - 202). Human Brachyury specific IgG was purified by human Brachyury 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 Brachyury-NL557

E9.5 mouse embryo sections were stained with NL557-conjugated anti-human Brachyury (Catalog # NL2085R, red) and counterstained with DAPI (blue). Positive staining is seen in the notochord.

Background Information

Brachyury is the founding member of the T-box family of transcription factors, which is characterized by a conserved DNA-binding T-domain at the N-terminus. Brachyury is required in the early determination and differentiation of mesoderms.

Immunocytochemistry Validation

This antibody has been tested for immunocytochemistry using E9.5 mouse embryo sections. Embryos were fixed in 4% paraformaldehyde, and blocked with PBS containing 10% normal donkey serum, 0.1% Triton® X-100, and 1% BSA. After blocking, sections were incubated with NL557-conjugated antibody at a final concentration of 10 μ g/mL (1:10 dilution) in blocking buffer for 3 hours at room temperature 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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