Anti-human GFAP-NL557

Catalog Number: NL2594R
Lot Number: AAWW02
100 Tests in 50 µL staining volume
20 Tests in 250 µL staining volume

Reagents Provided

NorthernLights™ 557 (NL557)-conjugated sheep polyclonal anti-human GFAP: Supplied as a 10X solution of antibody in 0.5 mL PBS containing 0.1% sodium azide.

Isotype: sheep IgG

Storage

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

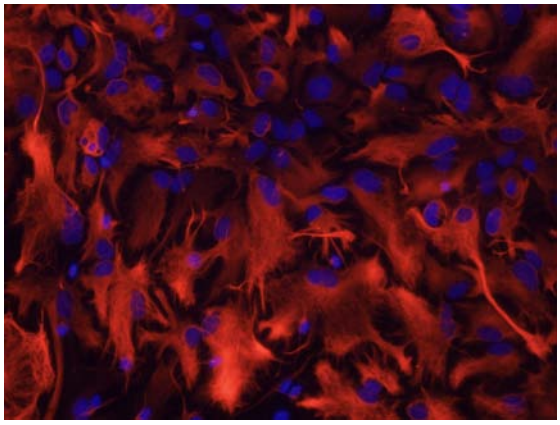
Intended Use

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

Product Description

Produced in sheep immunized with purified, *E. coli*-derived, recombinant human Glial Fibrillary Acidic Protein (rhGFAP; aa 292 - 432). Human GFAP specific IgG was purified by human GFAP 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 GFAP-NL557

Differentiated rat cortical stem cells were stained with NL557-conjugated anti-human GFAP (Catalog # NL2594R, red) and counterstained with DAPI (blue).

Background Information

GFAP is a type III intermediate filament protein. It is the major component of astrocyte intermediate filament. At the amino acid sequence level, human GFAP shares 91% and 90% identity with rat and mouse GFAP, respectively.

Immunocytochemistry Validation

This antibody has been tested for immunocytochemistry using differentiated rat cortical stem 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 µL is used, this kit can be used for 20 tests; 100 tests can be done in a staining volume of 50 µL.

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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