



Anti-human E-Cadherin-NL557

Catalog Number: NL648R

Lot Number: ABHV01

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 E-Cadherin: Supplied as a 10X solution of antibody in 0.5 mL PBS containing 0.1% 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.

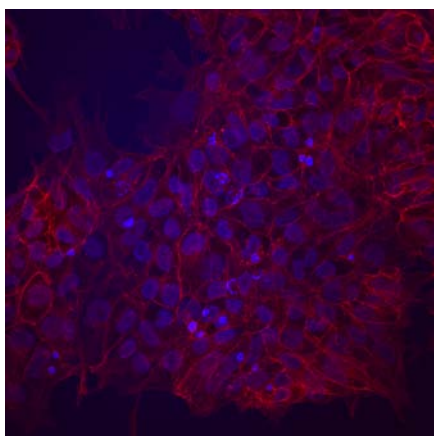
Intended Use

Designed to visualize the expression of human E-Cadherin by fluorescence microscopy.

Product Description

Produced in goats immunized with purified, NS0-derived, recombinant human E-Cadherin (rhE-Cadherin) extracellular domain. E-Cadherin specific IgG was purified by human E-Cadherin 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 E-Cadherin-NL557

BG01V cells were stained with NL557-conjugated anti-human E-Cadherin (Catalog # NL648R, red) and counterstained with DAPI (blue).

Background Information

E-Cadherin, also known as ECAD, is a type I transmembrane protein belonging to the Cadherin family of calcium-dependent cell adhesion molecules. Cadherins interact in a homophilic manner and play a role in tissue formation and the maintenance of tissue architecture. A soluble form of E-Cadherin can be released from epithelial cell surfaces by proteolysis.

Immunocytochemistry Validation

This antibody has been tested for immunocytochemistry using 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 at room temperature, or overnight at 4° C, 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.

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