

Anti-human E-Cadherin-NL493

Catalog Number: NL648G

Lot Number: ABHX01

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 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.

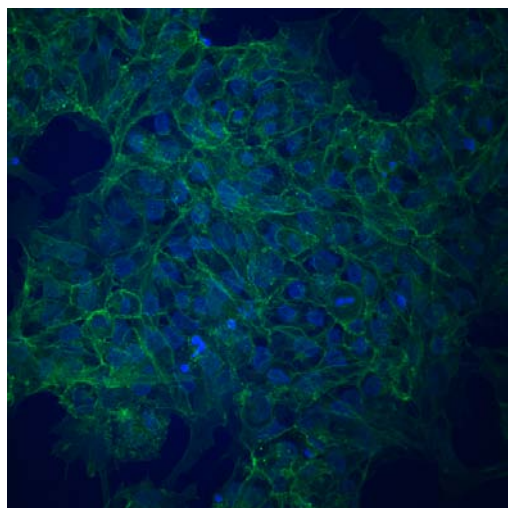
Intended Use

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 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 E-Cadherin-NL493

BG01V cells were stained with NL493-conjugated anti-human E-Cadherin (Catalog # NL648G, green) 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 NL493-conjugated antibody at a final concentration of 1X (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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