FITC-Labeled Human Nectin-4 Protein, His Tag

Catalog # NE4-HF2H3

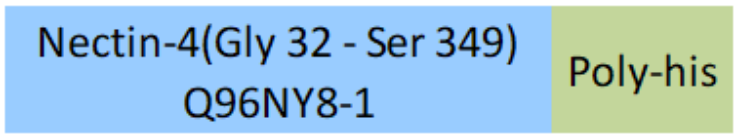
Synonym

NECTIN4,LNIR, PRR4, PVRL4

Source

FITC-Labeled Human Nectin-4, His Tag (NE4-HF2H3) is expressed from human 293 cells (HEK293). It contains AA Gly 32 - Ser 349 (Accession # Q96NY8-1). It is the FITC labeled form of Human Nectin-4, His Tag (NE4-H52H3).
Predicted N-terminus: Gly 32

Molecular Characterization



This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 36.0 kDa. The protein migrates as 38-45 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Conjugate

FITC

Excitation source: 488 nm spectral line, argon-ion laser

Excitation Wavelength: 488 nm

Emission Wavelength: 535 nm

Labeling

The primary amines in the side chains of lysine residues and the N-terminus of the protein are conjugated with FITC using standard chemical labeling method. The residual FITC is removed by molecular sieve treatment during purification process.

Protein Ratio

The FITC to protein molar ratio is *1-3*.

Purity

>95% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 μm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

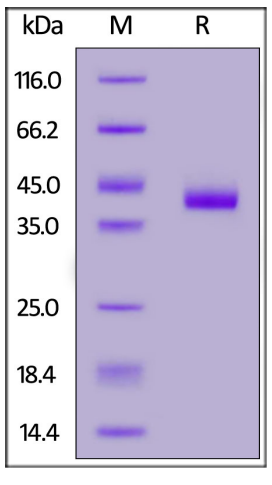
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please protect from light and avoid repeated freeze-thaw cycles.

This product is stable after storage at:

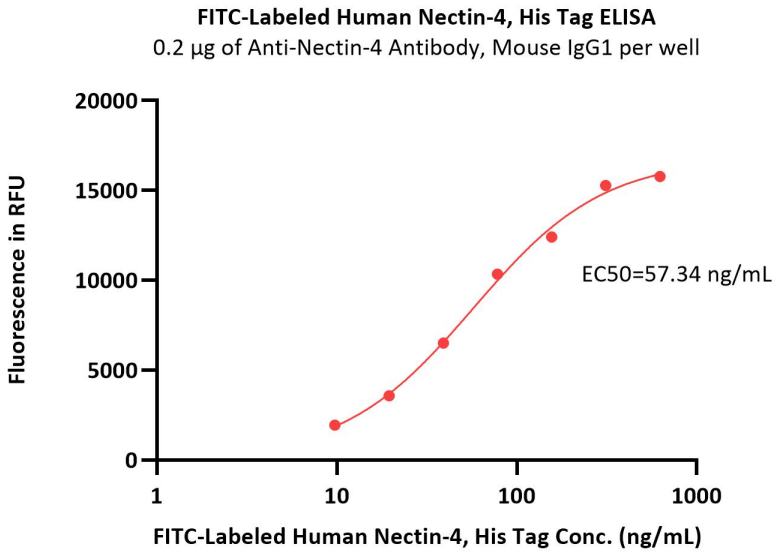
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



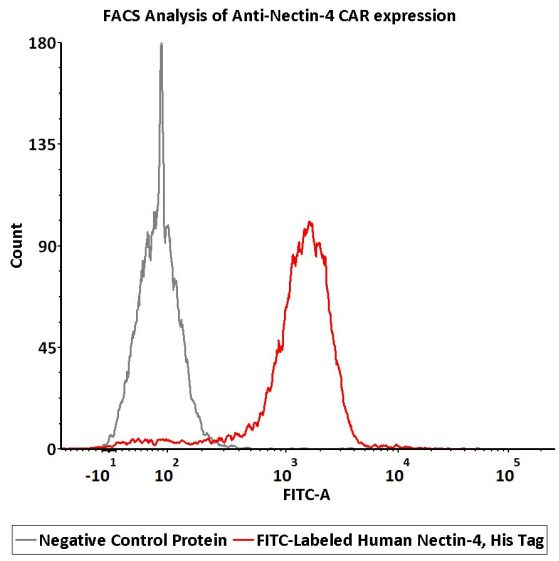
FITC-Labeled Human Nectin-4, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

Bioactivity-ELISA



Immobilized Anti-Nectin-4 Antibody, Mouse IgG1 at 2 μg/mL (100 μL/well) can bind FITC-Labeled Human Nectin-4, His Tag (Cat. No. NE4-HF2H3) with a linear range of 10-78 ng/mL (QC tested).

Bioactivity-FACS



2e5 of anti-Nectin-4 CAR-293 cells were stained with 100 μL of 10 μg/mL of FITC-Labeled Human Nectin-4, His Tag (Cat. No. NE4-HF2H3) and negative control protein respectively, FITC signal was used to evaluate the binding activity (QC tested).

Background

Nectin-4 (gene name PVRL4, poliovirus receptor-like 4) is a 66 kDa type I transmembrane glycoprotein belonging to the Nectin family of Ig superfamily proteins. Nectins are cell adhesion molecules that play a key role in various biological processes such as polarity, proliferation, differentiation and migration, for epithelial, endothelial, immune and neuronal cells, during development and adult life. Nectin-4 is a tumor-associated antigen in 50%, 49% and 86‰ of breast, ovarian and lung carcinomas, respectively, mostly on tumors of bad prognosis. Its expression is not detected in the corresponding normal tissues.