

Datasheet for JOT0058-1 Anti-Vimentin VHH Antibody

BASIC INFORMATION

Name Anti-Vimentin VHH Antibody

Specificity Vimentin

Species Reactivity Human

Description Alpaca derived anti-Vimentin VHH single domain antibody (molecular

weight: 13.9 kDa), expressed in E. coli under conditions free from animal

derived components

Conjugate and tags Un-conjugated; with a 6*His tag at its C-terminal

Tested

Applications

ELISA

Purification Affinity chromatography purified via Ni-charged resin

Format Liquid

Product buffer

25 mM TAPS pH8.5, 500 mM NaCl, 5 mM EDTA, 0.1 % Proclin 300

solution

Solution

Storage 4°C; Do not freeze.

Analyte description

Vimentin is a developmentally regulated intermediate filament protein (IFP) found in cells of mesenchymal origin. It is believed to be involved with the

intracellular transport of proteins between the nucleus and plasma membrane. Unlike other IFP proteins, vimentin is expressed, along with desmin, during the early stages of cellular development. During the

development process, vimentin is exchanged for new, tissue-specific IFPs. Vimentin has been implicated to be involved in the rate of steroid synthesis via its role as a storage network for steroidogenic cholesterol containing lipid droplets. Vimentin phosphorylation by a protein kinase causes the breakdown of intermediate filaments and activation of an ATP and myosin light chain dependent contractile event. This results in cytoskeletal changes that facilitate the interaction of the lipid droplets within mitochondria, and subsequent transport of cholesterol to the organelles leading to an increase

in steroid synthesis.

QUALITY - TRACEABILITY - INTEGRITY

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PARAMETERS TESTED ON EACH LOT

Product 1 mg/mL by Nanodrop

concentration

Purity ≥95% (4-12% gradient SDS-PAGE)

Affinity constant Not determined

Positive controls Positive ELISA detected in: recombinant human vimentin protein

Recommended

dilutions

Material safety

This product is sold for research use only. Standard Laboratory Practices

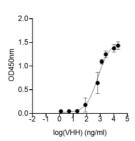
note should be followed when handling this material.

ELISA 1:1000-1:568000

SELECTED VALIDATION DATA

ELISA

binding curve of Vimentin VHH



Indirect ELISA showing anti-Vimentin VHH antibody (JOT0058-1) binding to purified Vimentin. Plates were coated with 100ng/well purified protein and binding of JOT0058-1 was assessed in serial dilution from 1.25ng/ml primary antibody in triplicate.

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