9853 Pacific Heights Blvd.
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JOT-0058: Anti-Vimentin VHH antibody

Clonality :	Monoclonal
Application :	ELISA
Reactivity :	Human
Gene :	VIM
Gene ID :	7431
Uniprot ID :	P08670
Alternative Name :	VIM
Isotype :	Camelid VHH

Description

Alpaca derived anti-Vimentin VHH single domain antibody (molecular weight: 13.9 kDa) with a 6*His tag at its C-terminal, expressed in E. coli under conditions free from animal derived components.

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.

Specificity: Vimentin

This is a product from Jotbody, Hong Kong. This antibody is made available worldwide by ABEOMICS Inc.

Product Info

Amount :	100 µg / 50 µg
Purification :	Affinity chromatography purified via Ni-charged resin. Purity: > 95% as determined by SDS-PAGE
Content :	1mg/mL Buffer25 mM TAPS pH8.5, 500 mM NaCl, 5 mM EDTA, 0.09 % NaN3
Storage condition :	4°C; Do not freeze.

Application Note

Positive controls: Positive ELISA detected in: recombinant human vimentin protein
Recommended dilutions : ELISA 1:1000-1:568000

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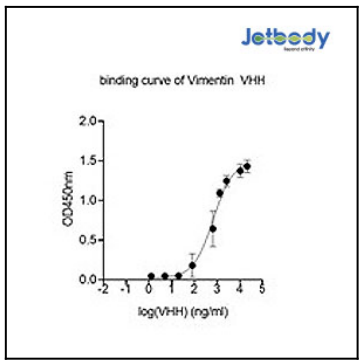

Figure 1: Indirect ELISA showing anti-Vimentin VHH antibody (JOT0058-1) binding to purified Vimentin. Plates were coated with 100ng/well purified protein and binding of JOT0058-1 was assessed in serial dilution from 1.25ng/ml primary antibody in triplicate.