Data Sheet (Cat.No.TMAY-00097)

TargetMol

Anti-Vimentin Antibody (5Y646)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	5Y646
Purification:	Protein A

Applications

Verified Activity:	1. Anti-VIM rabbit monoclonal antibody at 1:500 dilution. -Lane A: Hela Whole Cell Lysate. -Lane B: A549 Whole Cell Lysate. -Lane C: 293T Whole Cell Lysate. -Lane D: Jurkat Whole Cell lysate. -Lysates/proteins at 30 µg per lane. -Secondary -Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution. -Developed using the ECL technique. -Performed under reducing conditions. -Predicted band size:54 kDa. -Observed band size:55 kDa. 2. Immunochemical staining of human Vimentin in human stomach with rabbit monoclonal antibody at 1:10000 dilution, formalin-fixed paraffin embedded sections. 3. Immunochemical staining of human Vimentin in human malignant melanoma with rabbit monoclonal antibody at 1:10000 dilution, formalin-fixed paraffin embedded sections. 4. Immunochemical staining of human Vimentin in human lung cancer with rabbit monoclonal antibody at 1:10000 dilution, formalin-fixed paraffin embedded sections.
Application:	IHC-P,WB
Recommended	WB: 1:500-1:2000; IHC-P: 1:1000-1:10000

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen: A synthetic peptide: center region of the Human Vimentin/VIM

Antigen Species: Human

Synonyms: HEL113;CTRCT30;vimentin

Research Background

Vimentin is a type III intermediate filament (IF) protein found in various non-epithelial cells, especially mesenchymal cells. A vimentin monomer, has a central α-helical domain and carboxyl (tail) domains. Two monomers compose the basic subunit of vimentin assembly. Vimentin is crucial for supporting and anchoring the position of the organelles in the cytosol. Vimentin provided cells with a resilience absent from the microtubule or actin filament networks, when under mechanical stress in vivo. Therefore, in general, it is accepted that vimentin is the cytoskeletal component responsible for maintaining cell integrity. Vimentin is also responsible for stabilizing cytoskeletal interactions. It is found that vimentin control the transport of low-density lipoprotein. It has been used as a sarcoma tumor marker to identify mesenchyme.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481