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Human Vimentin antibody

Catalog Number: ATGA0453

PRODUCT INFORMATION

Catalog number

ATGA0453

Clone No.

AT5H8

Product type

Monoclonal Antibody

UnitProt No.

P08670

NCBI Accession No.

NP 003371

Alternative Names

Vimentin, epididymis luminal protein 113, HEL113, CTRCT30

PRODUCT SPECIFICATION

Antibody Host

Mouse

Reacts With

Human

Concentration

1mg/ml (determined by BCA assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen

Recombinant human VIM (1-466aa) purified from E. coli

Isotype

IgG1 kappa

Purification Note

By protein-A affinity chromatography

Application

ELISA, WB, ICC/IF

Usage

The antibody has been tested by ELISA, Western blot analysis, Flow cytometry and ICC/IF to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.



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Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

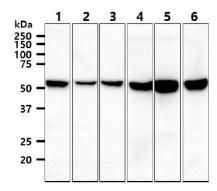
Vimentin is a type III intermediate filament (IF) protein that is expressed in mesenchymal cells. IF proteins are found in all metazoan cells as well as bacteria. IF, along with tubulin-based microtubules and actin-based microfilaments, comprises the cytoskeleton. All IF proteins are expressed in a highly developmentally-regulated fashion; vimentin is the major cytoskeletal component of mesenchymal cells. Because of this, vimentin is often used as a marker of mesenchymally-derived cells or cells undergoing an epithelial-to-mesenchymal transition (EMT) during both normal development and metastatic progression.

General References

John E. Eriksson., et al. (2009) J Clin Invest. 119(7): 1763-1771. Cabeen MT., et al. (2010) Annu Rev Genet. 44: 365-392.

DATA

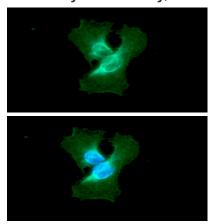
Western blot analysis (WB)



The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human VIM antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1 : Jurkat cell lysate Lane 2 : K562 cell lysate Lane 3 : 293T cell lysate Lane 4 : A549 cell lysate Lane 5 : SK-OV-3 cell lysate Lane 6 : HeLa cell lysate

Immunocytochemistry/Immunofluorescence (ICC/IF)



ICC/IF analysis of VIM in HeLa cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human VIM antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).

