

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

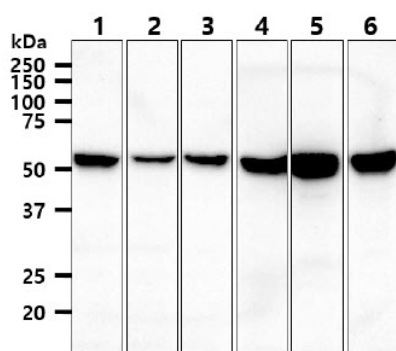
Vimentin is a type III intermediate filament (IF) protein that is expressed in mesenchymal cells. IF proteins are found in all metazoan cells as well as bacteria. IF, along with tubulin-based microtubules and actin-based microfilaments, comprises the cytoskeleton. All IF proteins are expressed in a highly 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

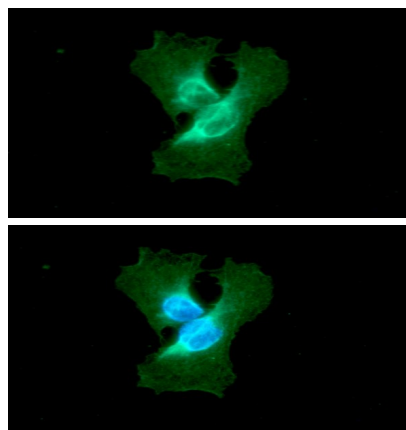
Western blot analysis (WB)



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).