DATASHEET

Version: 2016-08-17

Vimentin Antibody, pAb, Rabbit

Cat. No.: A01193-40

Size: 40 µg

Synonyms: Rabbit anti Vimentin (400-500 aa);

Description:

Vimentin is a member of the intermediate filament protein family. Intermediate filaments are an important structural feature of eukaryotic cells. They, along with microtubules and actin microfilaments, make up the cytoskeleton. Despite the fact that most intermediate filaments exist as stable structures, in fibroblasts, vimentin take on a dynamic structure.
GenScript **Vimentin Antibody, pAb, Rabbit** is developed in rabbit using a KLH-coupled synthetic peptide within residues 400-500 of human vimentin protein (Swiss Prot: P08670).

Immunogen: Synthetic peptide (KLH-coupled) derived from within residues 400-500 of human vimentin (Swiss Prot: P08670)

Host: Rabbit

Antigen Synonyms: Human

Conjugation: Unconjugated

Predicated Band Size:

53 kD

Observed Band Size:

53 kD, 30 kD

Formulation:

0.5 mg/ml, lyophilized with PBS, pH 7.4, containing 0.02% sodium azide

Ig Subclass: Rabbit IgG

Specificity: GenScript **Vimentin Antibody, pAb, Rabbit** detects endogenous levels of human vimentin protein. Sequence homology predicts that it will also react with mouse and rat vimentin.

Purification: Immunoaffinity chromatography

Applications:

Working concentrations for specific applications should be determined by the investigator. The appropriate concentrations may be affected by secondary antibody affinity, antigen concentration, the sensitivity of the method of detection, temperature, the length of the incubations, and other factors. The suitability of this antibody for applications other than those listed below has not been determined. The following concentration ranges are recommended starting points for this product.

ELISA: 0.05-0.2 µg/ml

Western blot: 0.5-1 µg/ml

Immunohistochemistry: 5-10 µg/ml

Flow cytometry: 1-3 µg for 1 x 10^6 cells

Other applications: user-optimized

Species Reactivity: Human. This product has not yet been tested with other species.

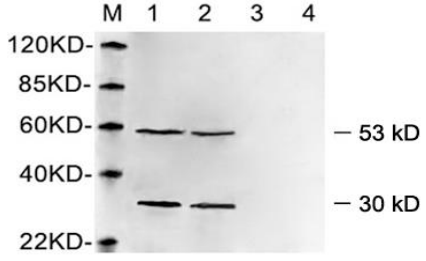
Reconstitution:

Reconstitute the lyophilized powder with deionized water (or equivalent) to an final concentration of 0.5 mg/ml.

Storage:

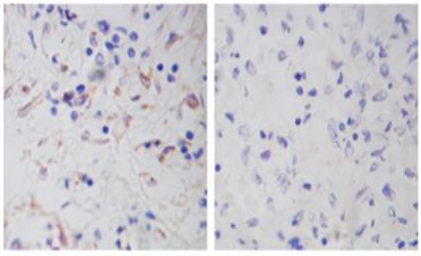
The antibody is stable in lyophilized form if stored at -20°C or below. The reconstituted antibody can be stored for 2-3 weeks at 2-8°C. For long term storage, aliquot and store at -20°C or below. Avoid repeated freezing and thawing cycles.

Example

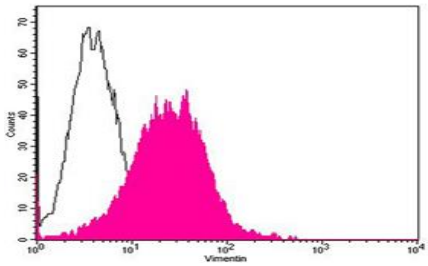


Western blot analysis of cell lysates using 1 µg/ml Rabbit Anti-Vimentin Polyclonal Antibody (GenScript, A01193)
Lane 1, 3: Hela cell lysate
Lane 2, 4: HEK293 cell lysate
Primary antibody:
Lane 1, 2: Rabbit Anti-Vimentin Polyclonal Antibody
Lane 3, 4: Rabbit Anti-Vimentin Polyclonal Antibody pre-incubated with immunizing peptide

The signal was developed with IRDye™ 800 Conjugated Goat Anti-Rabbit IgG.
Predicted band size 53 kD
Observed band size 53 kD
Additional band size 30 kD (Possible vimentin fragment)



Immunohistochemistry analysis of human spleen tissue slide (Paraffin embedded) using Rabbit Anti-Vimentin Polyclonal Antibody (Left, GenScript, A01193)
and Purified Rabbit IgG (Whole molecule) Control (Right, GenScript, A01008)



Flow cytometric analysis of Ramos cells using Vimentin Antibody, pAb, Rabbit (GenScript, A01193; shaded histogram) or with an isotype control antibody (GenScript, A01008; open histogram), followed by R-PE conjugated anti-rabbit IgG.