



Data Sheet

Product Name: Mouse Anti-Vimentin Monoclonal Antibody

Catalog No.: Y3322VIM

Clone Number: V9

Lot No.:

Quantity: 200 µg

Volume: 1 ml

Concentration: 200 µg/ml

Monoclonal: Primary Secondary **Polyclonal:** Primary Secondary

Source Species: Chicken Mouse Rabbit Goat Horse Other_____

Antigen Species: Human Mouse Rabbit Rat Other: Pig

Labeling: None HRP AP Biotin Dye Other_____

Description: Intermediate filaments (IFs) are a major component of the "cytoskeleton" of "higher" eukaryotes. Vimentin is an intermediate filament protein mainly specific of the mesoderm *in vivo*. *In vitro*, vimentin synthesis is characteristic of proliferating cells, regardless of their embryonal origin, and is switched off upon differentiation of certain precursor cells. Vimentin, a major structural component of IFs in many cell types, is shown to play an important role in vital mechanical and biological functions such as cell contractility, migration, stiffness, stiffening, and proliferation.

Applications and Suggested Dilutions (Sensitivity):

- Western blot: 1:100-1:500
- ELISA: 1:200,000
- Immunoaffinity purification of Vimentin
- Immunohistochemistry: 1:10-1:50
- Immunoprecipitation: 1:200
- Optimal working dilutions must be determined by end user

Source: Mouse monoclonal antibody produced by hybridoma clones.

Isotype: IgG1/ κ

Format/Reconstitution: Liquid immunoglobulin was purified from ascites by protein G column and stored in PBS with 0.2% BSA and 0.09% sodium azide. No reconstitution is necessary.

Immunogen/Sequence: Purified vimentin from pig eye lens.

Mol. Wt. Of Antigen: 57-60 kDa

Protein Specificity: Western blot shows single band of Vimentin in major organs of Human, Rat, Mouse, and Chicken etc.

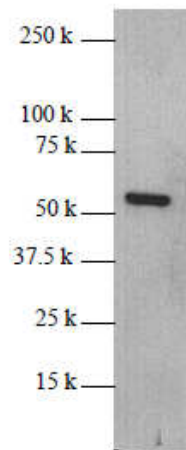
Tissue/cell line Specificity and Cellular Localization: All tissues in Cytoskeleton.

Species Specificity: Human, Monkey, Cow, Horse, Pig, Rabbit, Dog, Cat, Rat, Mouse, Hamster, Gerbil, and Chicken.

Storage/handling: Maintain at 2-8°C in undiluted aliquots for at least 6 months after date of receipt.

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Western Blot Analysis:



Western blot analysis of Vimentin protein expression in human liver cytoskeleton proteins

Key Reference:

1. Evans R.M. 1998. Vimentin: the conundrum of the intermediate filament gene family. *Bioessays* 20(1): 79-86.
2. Clarke E.J. 2002. Intermediate filaments: vimentin moves in. *Curr Biol.* 12(17): R596-8

Important Note: During shipment, small volumes of antibody will occasionally become entrapped in the seal of the product vial. For antibodies with volumes of 200 μ l or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.