Vimentin (V9): sc-6260

**BACKGROUND**

Cytoskeletal intermediate filaments (IFs) constitute a diverse group of proteins that are expressed in a highly tissue-specific manner. Intermediate filaments are constructed from two-chain, α-helical, coiled-coil molecules arranged on an imperfect helical lattice and have been widely used as markers for distinguishing individual cell types within a tissue and identifying the origins of metastatic tumors. One such intermediate filament protein, Vimentin, is a general marker of cells originating in the mesenchyme. Vimentin is frequently coexpressed with other members of the intermediate filament family, such as the cytokeratins, in neoplasms including melanoma and breast carcinoma.

**CHROMOSOMAL LOCATION**

Genetic locus: VIM (human) mapping to 10p13; Vim (mouse) mapping to 2 A1.

**SOURCE**

Vimentin (V9) is a mouse monoclonal antibody raised against purified Vimentin from eye lens of porcine origin.

**PRODUCT**

Each vial contains 200 µg IgG1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Vimentin (V9) is available conjugated to agarose (sc-6260 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-6260 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycocerythrin (sc-6260 PE), fluorescein (sc-6260 FITC), Alexa Fluor® 488 (sc-6260 AF488), Alexa Fluor® 546 (sc-6260 AF546), Alexa Fluor® 594 (sc-6260 AF594) or Alexa Fluor® 647 (sc-6260 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-6260 AF680) or Alexa Fluor® 790 (sc-6260 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

In addition, Vimentin (V9) is available conjugated to either TRITC (sc-6260 TRITC, 200 µg/ml) or Alexa Fluor® 405 (sc-6260 AF405, 200 µg/ml), for IF, IHC(P) and FCM.

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**APPLICATIONS**

Vimentin (V9) is recommended for detection of Vimentin of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and flow cytometry (1 µg per 1 x 10⁶ cells). Vimentin (V9) is also recommended for detection of Vimentin in additional species, including porcine.


Molecular Weight of Vimentin: 57 kDa.

**STORAGE**

Store at 4°C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**DATA**

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

For research use only, not for use in diagnostic procedures.