**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 2A1.

**SOURCE**

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

**PRODUCT**

Each vial contains 200 µg IgG κ 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 A C), 500 µg/< 0.1% sodium azide and 0.1% gelatin.

**APPLICATIONS**

Vimentin (V9) is recommended for detection of Vimentin of human and rat 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); non cross-reactive with mouse.

Vimentin (V9) is also recommended for detection of Vimentin in additional species, including porcine.


Molecular Weight of Vimentin: 57 kDa.

**RESEARCH USE**

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

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**DATA**

Western blot analysis of Vimentin phosphorylation in untreated (A, D), paclitaxel treated (B, E) and paclitaxel and lambda protein phosphatase (sc-200312A) treated (C, F). Jukat whole cell lysates. Antibodies tested include p-Vimentin (Ser 83) sc-130610 (A, B, C) and Vimentin (V9): sc-6260 (D, E, F).

**SELECT PRODUCT CITATIONS**