**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, \( \alpha \)-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 (RV202) is a mouse monoclonal antibody raised against cytoskeletal Vimentin extracts from lens tissue of calf 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 (RV202) is available conjugated to agarose (sc-32322 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-32322 HRP), 200 µg/ml, for WB, IHQ(P) and ELISA; to either phycoerythrin (sc-32322 PE), fluorescein (sc-32322 FITC), Alexa Fluor® 488 (sc-32322 AF488), Alexa Fluor® 546 (sc-32322 AF546), Alexa Fluor® 594 (sc-32322 AF594) or Alexa Fluor® 647 (sc-32322 AF647), 200 µg/ml, for WB (RGB), IF, IHQ(P) and FCM; and to either Alexa Fluor® 680 (sc-32322 AF680) or Alexa Fluor® 790 (sc-32322 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

In addition, Vimentin (RV202) is available conjugated to either PerCP (sc-32322 PerCP) or PerCP-Cy5.5 (sc-32322 PCPC5), 100 tests in 2 ml, for IF, IHQ(P) and FCM.

**APPLICATIONS**

Vimentin (RV202) 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 10^6 cells).

Vimentin (RV202) is also recommended for detection of Vimentin in additional species, including bovine.


**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.

Alexa Fluor® is a trademark of Molecular Probes, Inc., Oregon, USA.

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**Vimentin (RV202): sc-32322**

**WAY**

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<td>132 K</td>
<td>90 K</td>
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Vimentin (RV202): sc-32322. Western blot analysis of Vimentin expression in SUP-T1 (A), MOLT-4 (B), RAW 264.7 (C) and WEHI-231 (D) whole cell lysates.