**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 co-expressed 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 10p12.33; Vim (mouse) mapping to 2A2.

**SOURCE**

Vimentin (S-20) is available as either goat (sc-7558) or rabbit (sc-7558-R) polyclonal affinity purified antibody raised against a peptide mapping near the C-terminus of Vimentin of human origin.

**PRODUCT**

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-7558 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as agarose conjugate for immunoprecipitation, sc-7558AC, 500 µg/0.25 ml agarose in 1 ml.

Available as phycoerythrin (sc-7558 PE), fluorescein (sc-7558 FITC), PerCP (sc-7558 PerCP) or PerCP-Cy5.5 (sc-7558 PCPC5) conjugates for flow cytometry, 100 tests.

Available as Alexa Fluor® 405 (sc-7558 AF405), Alexa Fluor® 488 (sc-7558 AF488) or Alexa Fluor® 647 (sc-7558 AF647) conjugates for flow cytometry or immunofluorescence; 100 µg/2 ml.

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**APPLICATIONS**

Vimentin (S-20) 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), flow cytometry (1 µg per 1 x 10⁶ cells) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Vimentin (S-20) is also recommended for detection of Vimentin in additional species, including equine, canine, bovine and porcine.


**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.