vimentin Recombinant Antibody

Recombinant rabbit anti vimentin

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA14575	**Rabbit**	**Human, mouse**	**Immunocytochemistry, Immunohistochemistry, Immunoblot, Western Blot**

PRODUCT SYNONYMS

vimentin; Monoclonal Recombinant Antibody; Recombinant rabbit anti vimentin; vimentin recombinant antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, mouse
Clonality	Monoclonal
Isotype	IgG
Clone Number	RV205
Specificity	Human and mouse vimentin
Purity/Purification	The purity of the antibody is >98% as determined by SDS-Polyacrylamide gel electrophoresis.
Form/Format	Each vial contains 100 ul 1 mg/ml ProtA purified recombinant monoclonal antibody in PBS containing 0.09% sodium azide.
Applicable Applications for vimentin recombinant antibody	ICC (Immunocytochemistry), IHC (Immunohistochemistry), IB (Immunoblot)
Application Notes	(clone RV205) is suitable for immunoblotting, immunocytochemistry, and immunohistochemistry on frozen and paraffin-embedd tissue sections. Optimal antibody dilution should be determined by titration; recommended range is 1:100 – 1:200 for immunohistochemistry with fluorochrome conjugated secondary antibodies or with avidin-biotinylated horseradish peroxidase complex (ABC) as detection reagent, and 1:100 – 1:1000 for immunoblotting applications.
Source Note	(clone RV205) is a recombinant rabbit anti vimentin monoclonal antibody produced in mammalian HEK293 cells. Clone RV205 is a reformatted antibody (species switch), produced by cloning the antibody sequence of the mouse anti vimentin hybridoma RV202, which was derived by fusion of SP2/0-Ag14 mouse myeloma cells with spleen cells from a BALB/c mouse immunized with a cytoskeletal vimentin extract of calf lens.
Reactivity Note	(clone RV205) reacts exclusively with vimentin, which is expressed in mesenchymal cells and mesenchymal derived tumors e.g. lymphoma, sarcoma and melanoma. When applied to either frozen or paraffin sections of human tissues the antibody reacted with the appropriate tissues and cells, such as endothelia, vessels, stellate cells, glomerular podocytes, nerves, vessels, myoepithelial cells, adipocytes, endometrial glands, and Sertoli cells, with no staining in epithelial cells.
Endotoxin Level	The endotoxin level is < 1EU/mg as determined by the LAL chromogenic endotoxin assay.
Preparation and Storage	The antibody is shipped at ambient temperature and may be stored at +4°C. For prolonged storage prepare appropriate aliquots and store at or below -20°C. Prior to use, an aliquot is thawed slowly in the dark at ambient temperature, spun down again and used to prepare working dilutions by adding sterile phosphate buffered saline (PBS, pH 7.2). Repeated thawing and freezing should be avoided. Working dilutions should be stored at +4°C, not refrozen, and preferably used the same day. If a slight precipitation occurs upon storage, this should be removed by centrifugation. It will not affect the performance or the concentration of the product.

IMAGES



IF (Immunofluorescence)
Figure 2. Indirect immunofluorescence staining of human kidney tissue section with (diluted 1:1000), showing the specific pattern of vimentin in the mesenchymal cell types, such as fibroblasts in the connective tissue, podocytes, and endothelial cells in blood vessels. As expected, no reactivity is seen in the epithelial cell compartment.



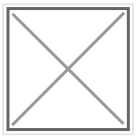
WB (Western Blot)
Figure 10. Western blotting result showing the specific reactivity with the 57kDa protein band of vimentin in both the mouse (3T3 mouse fibroblasts; left lane) and human (normal human dermal fibroblasts; right lane) cell extracts.



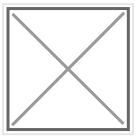
IF (Immunofluorescence)
Figure 3. Indirect immunofluorescence staining of human kidney tissue section with (diluted 1:1000), showing the specific pattern of vimentin in the mesenchymal cell types, such as fibroblasts in the connective tissue, podocytes, and endothelial cells in blood vessels. As expected, no reactivity is seen in the epithelial cell compartment.



IHC (Immunohistochemistry)
Figure 4. Immunostaining of human paraffin embedded tissue section of placenta with (diluted 1:200), showing the specific pattern of vimentin in the mesenchymal cell types, such as fibroblasts in the connective tissue, and endothelial cells in blood vessels. As expected, no reactivity is seen in the epithelial cell compartment.



IHC (Immunohistochemistry)
Figure 5. Immunostaining of human paraffin embedded tissue section of testis with (diluted 1:200), showing the specific pattern of vimentin in the mesenchymal cell types, such as fibroblasts in the connective tissue, endothelial cells in blood vessels and Sertoli cells.



IHC (Immunohistchemistry)
Figure 6. Immunostaining of human paraffin embedded tissue sections of human colon with (diluted 1:200), showing the specific pattern of vimentin in the mesenchymal cell types, such as fibroblasts in the connective tissue, and endothelial cells in blood vessels. As expected, no reactivity is seen in the epithelial cell compartment.

ADDITIONAL INFORMATION

Related Product Information for vimentin recombinant antibody	Vimentin (57 kDa) is the intermediate filament protein (IFP) of mesenchymal cells. This IFP however often deviates from the tissue-specific and developmentally regulated pattern of expression. Besides its typical expression in most cultured cells, vimentin is also expressed together with several other IFPs during early stages of development. As differentiation proceeds, vimentin is exchanged for the tissue-specific intermediate filament type. Also in cancers, vimentin is often expressed in addition to the tissue-specific IFP.
Product Categories/Family for vimentin recombinant antibody	Cancer; Cardiovascular; Cytoskeleton; Immunology; Neurobiology; Stem cell research

NCBI AND UNIPROT INFORMATION

UniProt Accession #	P08670

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/monoclonal/vimentin-recombinant-antibody-clone-rv205-immunocytochemistry-immunohistochemistry-immunoblot-elisa/14575