

Product Information

Anti-Vimentin

produced in goat, whole antiserum

Catalog Number **V4630**

Product Description

Anti-Vimentin is developed in goat using as immunogen purified vimentin from cultured human foreskin fibroblasts. The antiserum has been treated to remove lipoproteins.

Anti-Vimentin may be used in immunoblotting and immunoperoxidase or immunofluorescent labeling on formalin-fixed, paraffin-embedded, as well as frozen, tissue sections.

Intermediate filaments (IFs) with characteristic 10 nm diameter are a distinct class of molecularly heterogeneous cytoskeletal filaments defined by ultrastructural, immunological and biochemical criteria. IFs differ significantly from other cytoskeletal elements of the cell, namely microtubules and microfilaments, and are components of most eukaryotic cells. Vimentin, one of the five major groups of intermediate filaments, occurs in mesenchymal cells.

The product is an antiserum to vimentin. It reacts specifically with vimentin in cultured mammalian cells and tissue sections. The antibodies specifically stain the vimentin band at a molecular weight of 58 kDa using total cell or tissue extracts in an immunoblotting technique. This antibody localizes vimentin in fibroblasts, endothelial cells, lymphoid tissues, and melanocytes. Similarly, the antibody stained tumors derived from these cells including sarcomas, lymphomas, melanomas, and their metastatic lesions. The antibody shows wide cross-reactivity among mammalian species using various immunolabeling techniques. No reactivity was observed with the other families of intermediate filaments, including, desmin, keratin, neurofilaments and glial filaments

Reagent

Supplied as a liquid containing 15 mM sodium azide as a preservative.

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

For continuous use, store at 2-8 °C for up to one month. For extended storage, solution may be frozen in working aliquots. Repeated freezing and thawing is not recommended. If slight turbidity occurs upon prolonged storage, clarify by centrifugation before use.

This goat antiserum was maintained at pH 5.0 for 40 minutes to meet U.S.D.A. requirements.

Product Profile

The antibody may be used in immunocytochemical localization of vimentin in normal and pathological tissue of mesenchymal derivation, as well as for immunofluorescent labeling of cultured mammalian cells.

Indirect immunofluorescence: a minimum working dilution of 1:20 was determined for formalin-fixed, paraffin-embedded human tissue sections that have been treated with 0.1% trypsin.

Immunoblotting : a minimum working dilution of 1:50 was determined using HS-68 -Human Foreskin cell extract

Note: In order to obtain optimum results, it is recommended that each individual user determine optimal working dilution by titration.

DS,KAA,PHC 10/14-1