abcam

Product datasheet

Anti-Vimentin antibody ab11256

4 Abreviews 31 References 1 Image

Overview

Product name	Anti-Vimentin antibody
Description	Goat polyclonal to Vimentin
Host species	Goat
Specificity	No reactivity was observed with the other families of intermediate filaments, including, desmin, keratin, neurofilaments and glial filaments.The antibody localizes vimentin in normal and pathological tissue of mesenchymal derivation. The antibody shows wide cross-reactivity among mammalian species.
Tested applications	**Suitable for:** IHC-P
Species reactivity	**Reacts with:** Human **Predicted to work with:** a wide range of other species
Immunogen	Tissue, cells or virus corresponding to Human Vimentin. Vimentin from cultured human foreskin fibroblasts.
General notes	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. The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	Preservative: 0.097% Sodium azide Constituent: Whole serum
Purity	Whole antiserum
Purification notes	The antiserum has been treated to remove lipoproteins.

Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab11256 in the following tested applications.

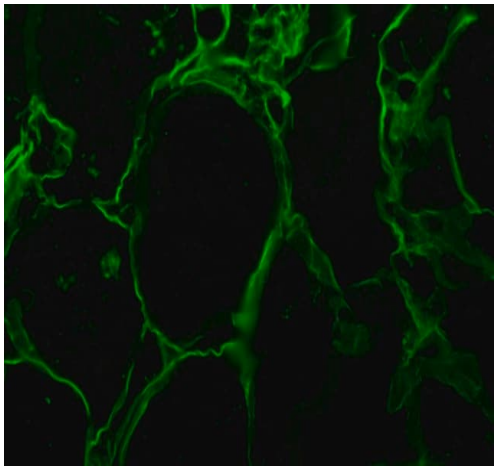
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P	(1)	1/20.

Target

Function	Vimentins are class-III intermediate filaments found in various non-epithelial cells, especially mesenchymal cells. Vimentin is attached to the nucleus, endoplasmic reticulum, and mitochondria, either laterally or terminally. Involved with LARP6 in the stabilization of type I collagen mRNAs for CO1A1 and CO1A2.
Tissue specificity	Highly expressed in fibroblasts, some expression in T- and B-lymphocytes, and little or no expression in Burkitt's lymphoma cell lines. Expressed in many hormone-independent mammary carcinoma cell lines.
Involvement in disease	Cataract 30
Sequence similarities	Belongs to the intermediate filament family.
Domain	The central alpha-helical coiled-coil rod region mediates elementary homodimerization. The [IL]-x-C-x-x-[DE] motif is a proposed target motif for cysteine S-nitrosylation mediated by the iNOS-S100A8/A9 transnitrosylase complex.
Post-translational modifications	Filament disassembly during mitosis is promoted by phosphorylation at Ser-55 as well as by nestin (By similarity). One of the most prominent phosphoproteins in various cells of mesenchymal origin. Phosphorylation is enhanced during cell division, at which time vimentin filaments are significantly reorganized. Phosphorylation by PKN1 inhibits the formation of filaments. Phosphorylated at Ser-56 by CDK5 during neutrophil secretion in the cytoplasm. Phosphorylated by STK33. O-glycosylated during cytokinesis at sites identical or close to phosphorylation sites, this interferes with the phosphorylation status. S-nitrosylation is induced by interferon-gamma and oxidatively-modified low-densitity lipoprotein (LDL(ox)) possibly implicating the iNOS-S100A8/9 transnitrosylase complex.
Cellular localization	Cytoplasm.
Form	Vimentin is found in connective tissue and in the cytoskeleton.

Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Vimentin antibody (ab11256)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of 0.1% trypsin treated human skin tissue labelling Vimentin with ab11256 at 1/20 dilution. FITC-conjugated rabbit anti-goat IgG (whole molecule) was used as the secondary antibody (1/20 dilution).

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