

## Product datasheet

# Anti-Vimentin antibody ab39376

★★★★☆ [14 Abreviews](#) [8 References](#) [1 Image](#)

### Overview

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|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product name</b>        | Anti-Vimentin antibody                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Description</b>         | Chicken polyclonal to Vimentin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Host species</b>        | Chicken                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Tested applications</b> | <b>Suitable for:</b> ICC/IF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Species reactivity</b>  | <b>Reacts with:</b> Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Immunogen</b>           | Synthetic peptide corresponding to a region of the Vimentin gene product shared between the mouse (NP_035831, NCBI) and human (NP_003371, NCBI) gene products.                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Positive control</b>    | ICC/IF: Mouse brain                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>General notes</b>       | <p>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.</p> <p>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&amp;As</p> |

### Properties

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|                             |                                                                                                           |
|-----------------------------|-----------------------------------------------------------------------------------------------------------|
| <b>Form</b>                 | Liquid                                                                                                    |
| <b>Storage instructions</b> | Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle. |
| <b>Storage buffer</b>       | Preservative: 0.02% Sodium azide<br>Constituent: PBS<br><br>(10mM isotonic 0.9% w/v), pH 7.2              |
| <b>Purity</b>               | Immunogen affinity purified                                                                               |
| <b>Clonality</b>            | Polyclonal                                                                                                |
| <b>Isotype</b>              | IgY                                                                                                       |

### Applications

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**The Abpromise guarantee**

Our **Abpromise guarantee** covers the use of ab39376 in the following tested applications.

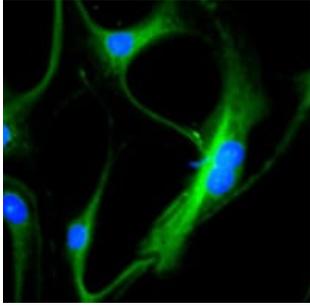
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| Application | Abreviews | Notes          |
|-------------|-----------|----------------|
| ICC/IF      | ★★★★★ (5) | 1/100 - 1/200. |

**Target**

|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Function</b>                         | 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.<br>Involved with LARP6 in the stabilization of type I collagen mRNAs for CO1A1 and CO1A2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Tissue specificity</b>               | 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Involvement in disease</b>           | Cataract 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Sequence similarities</b>            | Belongs to the intermediate filament family.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Domain</b>                           | 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Post-translational modifications</b> | 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.<br>O-glycosylated during cytokinesis at sites identical or close to phosphorylation sites, this interferes with the phosphorylation status.<br>S-nitrosylation is induced by interferon-gamma and oxidatively-modified low-density lipoprotein (LDL(ox)) possibly implicating the iNOS-S100A8/9 transnitrosylase complex. |
| <b>Cellular localization</b>            | Cytoplasm.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Form</b>                             | Vimentin is found in connective tissue and in the cytoskeleton.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

**Images**



Cultured dissociated cells from an e13 mouse brain, vimentin (green staining) can be seen forming the cytoskeleton of immature astrocyte progenitor cells. DAPI (blue staining) allows visualization of nuclei.

Immunocytochemistry/ Immunofluorescence - Anti-Vimentin antibody (ab39376)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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