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## Anti-Vimentin eFluor<sup>®</sup> 615

**Catalog Number:** 42-9897

**RUO: For Research Use Only. Not for use in diagnostic procedures.**

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### Product Information



**Contents:** Anti-Vimentin eFluor<sup>®</sup> 615

**Catalog Number:** 42-9897

**Clone:** V9

**Concentration:** 0.2 mg/mL

**Host/Isotype:** Mouse IgG1, kappa



**Formulation:** aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

**Temperature Limitation:** Store at 2-8°C. Do not freeze. Light-sensitive material.

**Batch Code:** Refer to vial

**Use By:** Refer to vial

**Contains sodium azide**



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### Description

The V9 monoclonal antibody recognizes human Vimentin, a 57 kDa protein that functions as a structural component of intermediate filaments. Vimentin is expressed in cells derived from the mesenchyme but also in specific populations such as radial glia and immature glial cells, as well as pancreatic precursor cells. It is proposed to be a marker of cardiac differentiation. In neural cells, vimentin expression is gradually replaced by neurofilaments. Reports have also shown surface expression of vimentin on activated macrophages, platelets, as well as apoptotic T cells and neutrophils.

This antibody also recognizes canine (dog), rat and chicken vimentin but does not recognize mouse vimentin.

### Applications Reported

This V9 antibody has been reported for use in immunocytochemistry and immunohistochemical staining of frozen (IHC-F) and formalin-fixed paraffin embedded tissue sections (IHC-P).

### Applications Tested

This V9 antibody has been tested by immunocytochemistry on fixed and permeabilized C6 cells at less than or equal to 1 ug/mL. It is recommended that this antibody be carefully titrated for optimal performance in the assay of interest. This product has not been validated for flow cytometric analysis.

**Filter Recommendation:** When using this eFluor<sup>®</sup> 615 antibody conjugate, we recommend a filter that will capture the 615 emission wavelength (for example, Excitation 560/55, 585LP, Emission 645/75). A standard Alexa Fluor<sup>®</sup> 594 filter is acceptable.

### References

Moisan E, Girard D. Cell surface expression of intermediate filament proteins vimentin and lamin B1 in human neutrophil spontaneous apoptosis. *J Leukoc Biol.* 2006 Mar;79(3):489-98. (V9, FC)

Dubey M, Hoda S, Chan WK, Pimenta A, Ortiz DD, Shea TB. Reexpression of vimentin in differentiated neuroblastoma cells enhances elongation of axonal neurites. *Neurosci Res.* 2004 Oct 15;78(2):245-9. (V9, ICC)

Bohn W, Wieggers W, Beuttenmüller M, Traub P. Species-specific recognition patterns of monoclonal antibodies directed against vimentin. *Exp Cell Res.* 1992 Jul;201(1):1-7. (V9, IHC)

### Related Products

00-4953 IHC /ICC Blocking Buffer - Low Protein

00-4954 20X TBS Wash Buffer for IHC/ICC

00-4958 Fluoromount-G<sup>™</sup>

42-4714 Mouse IgG1 K Isotype Control eFluor<sup>®</sup> 615 (P3.6.2.8.1)

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