

## Product datasheet for **AM32837PU-S**

### Vimentin (VIM) Mouse Monoclonal Antibody [Clone ID: VM452]

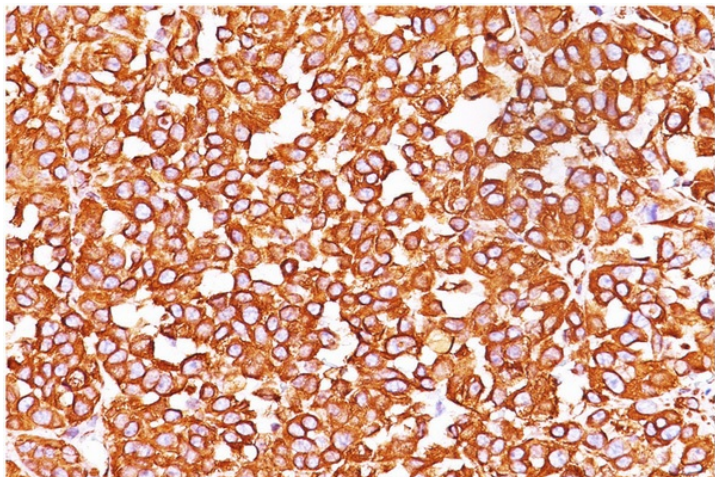
#### Product data:

Product Type:	Primary Antibodies
Clone Name:	VM452
Applications:	FC, IF, IHC, IP, WB
Recommended Dilution:	<b>ELISA:</b> Use Antibody without BSA For coating. <b>Flow Cytometry:</b> 0.5-1 µg/10 <sup>6</sup> cells. <b>Immunofluorescence:</b> 1-2 µg/ml. <b>Western Blot:</b> 0.5-1 µg/ml. <b>Immunoprecipitation:</b> 1-2 µg/500 µg protein lysate. <b>Immunohistochemistry on Frozen and Formalin-Fixed Paraffin Sections:</b> 0.5-1 µg/ml for 30 minutes at RT. Staining of formalin-fixed tissues requires boiling tissue sections in 10mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes. <b>Positive Control:</b> Jurkat cells, Sarcomas, Melanomas.
Reactivity:	Bovine, Canine, Chicken, Feline, Goat, Human, Porcine
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human Vimentin Recombinant protein.



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<b>Specificity:</b>	<p>This Monoclonal VM452 Antibody reacts with a 58kDa protein identified as Vimentin. It shows no cross-reaction with other closely related intermediate filament proteins (IFP's) such as desmin, keratin, neurofilament, and glial fibrillary acid protein.</p> <p>Anti-Vimentin alone is of limited value as a diagnostic tool; however, when used in panels with other antibodies, it is useful for the sub-classification of a given tumor. Expression of vimentin, when used in conjunction with anti-keratin, is helpful when distinguishing melanomas from undifferentiated carcinomas and large cell lymphomas. All melanomas and Schwannomas react strongly with anti-vimentin. It labels a variety of mesenchymal cells, including melanocytes, lymphocytes, endothelial cells, and fibroblasts. Non-reactivity of anti-Vimentin is often considered more useful than its positive reactivity, since there are a few tumors that do not contain vimentin, e.g. hepatoma and seminoma. Anti-vimentin is also useful as a tissue process control reagent.</p> <p><b>Cellular Localization:</b> Cytoplasmic.</p> <p><b>Negative Species:</b> Mose, Rat.</p>
<b>Formulation:</b>	<p>10mM PBS State: Purified State: Liquid purified IgG fraction from Bioreactor Concentrate Stabilizer: 0.05% BSA Preservative: 0.05% Sodium Azide</p>
<b>Concentration:</b>	lot specific
<b>Purification:</b>	Protein A/G Chromatography
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Store undiluted at 2-8°C.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>Predicted Protein Size:</b>	57-60 kDa
<b>Gene Name:</b>	vimentin
<b>Database Link:</b>	<a href="#">Entrez Gene 7431 Human P08670</a>
<b>Background:</b>	<p>Vimentin is a protein belonging to the class of intermediate filaments of the cell, which includes other proteins such as keratins, desmin, neurofilaments, and nuclear lamins. It is present in the majority of cells of mesenchymal and nonmesenchymal origin, and its filaments are associated with both the nuclear and plasma membranes. Vimentin is highly expressed in fibroblasts and is also expressed in many hormone-independent breast carcinoma cell lines.</p>
<b>Synonyms:</b>	VIM

**Product images:**

Formalin-paraffin human melanoma stained with Vimentin Antibody (Clone VM452).