**Vimentin Monoclonal ANTIBODY**

**Catalog Number:** 60330-1-Ig

### Basic Information

- **Catalog Number:** 60330-1-Ig
- **Size:** 120 μg/150 μl
- **Source:** Mouse
- **Isotype:** IgG1
- **Purification Method:** Protein G purification
- **Immunogen Catalog Number:** AG0489
- **GenBank Accession Number:** BC000163
- **GeneID (NCBI):** 7431
- **Full Name:** Vimentin
- **Calculated MW:** 466aa, 54 kDa
- **Observed MW:** 55-60 kDa

### Applications

- **Tested Applications:** FC, IF, IHC, WB, ELISA
- **Cited Applications:** IF, IHC, WB
- **Species Specificity:** human, mouse, rat
- **Cited Species:** human, rat

### Background Information

Vimentin, also named as VIM, belongs to the intermediate filament family. Vimentin is class-III intermediate filaments found in various non-epithelial cells, especially mesenchymal cells. Vimentin is important for stabilizing the architecture of the cytoplasm. Monocyte-derived macrophages secrete vimentin into the extracellular space in vitro. Secretion of vimentin was enhanced by the proinflammatory cytokine tumor necrosis factor-alpha (TNFA; 191160) and inhibited by the antiinflammatory cytokine IL10 (124092), suggesting that vimentin is involved in the immune response. Vimentin has specialized functions that contribute to specific dynamic cellular processes. As a phosphoprotein, 55-60 kDa of vimentin proteins can be observed due to the different phosphorylation level.

### Notable Publications

<table>
<thead>
<tr>
<th>Author</th>
<th>PubMed ID</th>
<th>Journal</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Linglu Zhao</td>
<td>30196308</td>
<td>Med Sci Monit</td>
<td>IHC</td>
</tr>
<tr>
<td>Jianguang Jia</td>
<td>30339826</td>
<td>J Cell Mol Med</td>
<td>WB</td>
</tr>
<tr>
<td>Kenneth R Muir</td>
<td>36467418</td>
<td>PLoS One</td>
<td>IF</td>
</tr>
</tbody>
</table>

### Storage

- **Storage:** Store at -20ºC. Stable for one year after shipment.
- **Storage Buffer:** PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
- **Aliquoting:** unnecessary for -20ºC storage

---

For technical support and original validation data for this product, please contact:

- T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
- E: proteintech@ptglab.com
- W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.
**Selected Validation Data**

**Immunohistochemistry of paraffin-embedded human breast cancer tissue slide using 60330-1-Ig (Vimentin antibody) at dilution of 1:8000 (under 10x lens) heat mediated antigen retrieved with Tris-EDTA buffer (pH9).**

**Immunohistochemistry of paraffin-embedded human breast cancer tissue slide using 60330-1-Ig (Vimentin antibody) at dilution of 1:8000 (under 40x lens) heat mediated antigen retrieved with Tris-EDTA buffer (pH9).**

**Immunohistochemistry of paraffin-embedded human colon tissue slide using 60330-1-Ig (Vimentin antibody) at dilution of 1:102400 (under 10x lens) heat mediated antigen retrieved with Tris-EDTA buffer (pH9).**

**Immunohistochemistry of paraffin-embedded human liver cancer tissue slide using 60330-1-Ig (Vimentin antibody) at dilution of 1:6400 (under 10x lens) heat mediated antigen retrieved with Tris-EDTA buffer (pH9).**

**WB result of Vimentin antibody (60330-1-Ig, 1:4000) with si-Control and si-Vimentin transfected Jurkat cells.**

**Immunohistochemistry of paraffin-embedded human tonsillitis tissue slide using 60330-1-Ig (Vimentin antibody) at dilution of 1:4000 (under 10x lens) heat mediated antigen retrieved with Tris-EDTA buffer (pH9).**

**Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using 60330-1-Ig (Vimentin antibody) at dilution of 1:100 and Alexa Fluor 488 Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) 1X10^6 Jurkat cells were stained with 0.20ug Vimentin antibody (60330-1-Ig, red) and control antibody (blue). Fixed with 90% MeOH.**