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:** BC0300163
- **Gene ID (NCBI):** 7431
- **Full Name:** vimentin
- **Calculated MW:** 466aa, 54 kDa
- **Observed MW:** 55-60 kDa
- **Recommended Dilutions:**
  - WB: 1:10000-1:50000
  - IHC: 1:2000-1:10000
  - IF: 1:50-1:500

Applications

- **Tested Applications:** FC, IF, IHC, WB, ELISA
- **Cited Applications:** IF, IHC, WB
- **Species Specificity:** human, mouse, rat
- **Cited Species:** human, mouse, rat
- **Note-IHC:** suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

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. Monocytes/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

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<th>Author</th>
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<tr>
<td>Linglu Zhao</td>
<td>30196308</td>
<td>Med Sci Monit</td>
<td>IHC</td>
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<td>Jinguang Jia</td>
<td>30338929</td>
<td>J Cell Biol Med</td>
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<tr>
<td>Kenneth R Muir</td>
<td>26407416</td>
<td>PLoS One</td>
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Storage

- **Storage:** Store at -20ºC. Stable for one year after shipment.
- **Storage Buffer:** PBS with 0.05% sodium azide and 50% glycerol pH 7.3.
- **Aliquoting is unnecessary for -20ºC storage**

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

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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

Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 60330-1-lg (Vimentin antibody) at dilution of 1:10,000 (under 10x lens) heat mediated antigen retrieved with Tris-EDTA buffer (pH 9).

Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 60330-1-lg (Vimentin antibody) at dilution of 1:6400 (under 10x lens) heat mediated antigen retrieved with Tris-EDTA buffer (pH 9).

Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 60330-1-lg (Vimentin antibody) at dilution of 1:8000 (under 10x lens) heat mediated antigen retrieved with Tris-EDTA buffer (pH 9).

Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 60330-1-lg (Vimentin antibody) at dilution of 1:8000 (under 40x lens) heat mediated antigen retrieved with Tris-EDTA buffer (pH 9).

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

Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 60330-1-lg (Vimentin antibody) at dilution of 1:4000 (under 10x lens) heat mediated antigen retrieved with Tris-EDTA buffer (pH 9).

Raji cells were subjected to SDS PAGE followed by western blot with 60330-1-lg (Vimentin Antibody) at dilution of 1:20,000 incubated at room temperature for 1.5 hours

Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using 60330-1-lg (Vimentin antibody) at dilution of 1:100 and Alexa Fluor 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).

1X10⁷ Jurkat cells were stained with 0.20ug Vimentin antibody (60330-1-lg, red) and control antibody (blue). Fixed with 90% MeOH.