**VNN1**

**Polyclonal Antibody**

**Catalog Number:** 21745-1-AP

**Basic Information**

<table>
<thead>
<tr>
<th>Catalog Number:</th>
<th>GenBank Accession Number:</th>
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</thead>
<tbody>
<tr>
<td>21745-1-AP</td>
<td>BC096268</td>
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</table>

<table>
<thead>
<tr>
<th>Source:</th>
<th>Full Name:</th>
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<tbody>
<tr>
<td>Rabbit</td>
<td>varin 1</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Size:</th>
<th>Calculated MW:</th>
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<tbody>
<tr>
<td>56 μg/150 μl</td>
<td>513aa,57 kDa</td>
</tr>
</tbody>
</table>

**Purification Method:**

Antigen affinity purification

**Immunogen Catalog Number:** AG16501

**GenBank Accession Number:**

<table>
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<tr>
<th>Source:</th>
<th>GenBank Accession Number:</th>
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<tbody>
<tr>
<td>8876</td>
<td></td>
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</tbody>
</table>

**GeneID (NCBI):**

| 8876    |

**Full Name:**

vanin 1

**Calculated MW:**

513aa, 57 kDa

**Observed MW:**

55-72 kDa

**Recommended Dilutions:**

- WB: 1:300-1:1000
- IP: 0.5-4.0 μg for IP and 1:500-1:1000 for WB
- IHC: 1:20-1:200

**Applications**

- **Tested Applications:** IHC, IP, WB, ELISA
- **Cited Applications:** IHC, WB
- **Species Specificity:** human, mouse
- **Cited Species:** human, mouse

**Note:** suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

**Positive Controls:**

- WB: mouse kidney tissue; PC-13 cells, BePC-3 cells
- IP: mouse kidney tissue
- IHC: human pancreas cancer tissue

**Background Information**

VNN1 (Vascular non-inflammatory molecule 1) is also named as Vanin-1, Pantetheinase, Tiff66. It is a GPI-anchored 70-kDa protein with a high degree of homology with GPI-80 (also known as VNN2), a molecule expressed by human phagocytes and involved in leukocyte adhesion and migration. Vanin-1 is predominantly expressed by resident tissue cells and acts at the level of epithelial cells and surrounding hematopoietic cells by paracrine cysteamine release (PMID: 17163446). The full length VNN1 has a signal peptide, a propeptide and six glycosylation sites. According to some authors, the variations which varied between 55 and 72kDa may be due to different degrees of glycosylation of the protein and cleavage (JOSE A et al. 2001).

**Notable Publications**

<table>
<thead>
<tr>
<th>Author</th>
<th>PubMed ID</th>
<th>Journal</th>
<th>Application</th>
<th>Application</th>
</tr>
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<tbody>
<tr>
<td>Povero Davide D</td>
<td>24105341</td>
<td>Sci Signal</td>
<td>WB</td>
<td></td>
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<tr>
<td>Xingran Chen</td>
<td>29136776</td>
<td>Biomed Pharmacother</td>
<td>WB</td>
<td></td>
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<tr>
<td>Yan-Wei Hu</td>
<td>27281478</td>
<td>J Lipid Res</td>
<td>WB</td>
<td></td>
</tr>
</tbody>
</table>

**Storage**

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

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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 (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.
mouse kidney tissue were subjected to SDS PAGE followed by western blot with 21745-1-AP (VNN1 antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.

Immunohistochemical analysis of paraffin-embedded human pancreas cancer slide using 21745-1-AP (VNN1 Antibody) at dilution of 1:50 (under 10x lens).

Immunohistochemical analysis of paraffin-embedded human pancreas cancer slide using 21745-1-AP (VNN1 Antibody) at dilution of 1:50 (under 40x lens).

IP Result of anti-VNN1 (IP:21745-1-AP, 4ug; Detection:21745-1-AP 1:800) with mouse kidney tissue lysate 400ug.