**Cytokeratin 19 Polyclonal antibody**

**Catalog Number:** 10712-1-AP

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### Basic Information

<table>
<thead>
<tr>
<th>Catalog Number:</th>
<th>GenBank Accession Number:</th>
</tr>
</thead>
<tbody>
<tr>
<td>10712-1-AP</td>
<td>BC007628</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Size:</th>
<th>Purification Method:</th>
</tr>
</thead>
<tbody>
<tr>
<td>150μl, Concentration: 500 μg/ml by Nanodrop;</td>
<td>Antigen affinity purification</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Source:</th>
<th>Recommended Dilutions:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rabbit</td>
<td>WB: 1:3000-1:30000</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Isotype:</th>
<th>IHC: 1:3000-1:12000</th>
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<tbody>
<tr>
<td>IgG</td>
<td>IF: 1:200-1:800</td>
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</table>

<table>
<thead>
<tr>
<th>Immunogen Catalog Number:</th>
<th>Full Name:</th>
</tr>
</thead>
<tbody>
<tr>
<td>AG1085</td>
<td>keratin 19</td>
</tr>
</tbody>
</table>

- **Size:** 150μl, Concentration: 500 μg/ml by Nanodrop;
- **Source:** Rabbit
- **Isotype:** IgG
- **Immunogen Catalog Number:** AG1085
- **Full Name:** keratin 19
- **GenBank Accession Number:** BC007628
- **Source:** Rabbit
- **Isotype:** IgG
- **Immunogen Catalog Number:** AG1085
- **Full Name:** keratin 19
- **GenBank Accession Number:** BC007628

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### Applications

**Tested Applications:** FC, IF, IHC, WB, ELISA

**Cited Applications:** FC, IF, IHC, WB

- **Species Specificity:** human, mouse
- **Cited Species:** human, goat, rat, mouse, pig, dog

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

**Positive Controls:**
- **WB:** A431 cells, HepG2 cells, mouse placenta tissue, MCF-7 cells, A549 cells, mouse brain tissue, HT-29 cells
- **IHC:** human colon tissue, human pancreas tissue, human thyroid cancer tissue, mouse liver tissue, human oesophagus cancer tissue, mouse skin tissue, mouse colon tissue, human lung cancer tissue, human breast cancer tissue, human stomach cancer tissue, human skin tissue
- **IF:** HaCaT cells, HeLa cells, HepG2 cells

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### Background Information

Keratins are a large family of proteins that form the intermediate filament cytoskeleton of epithelial cells. Keratin expression is highly regulated, tissue specific, and varies according to cell-state. Type I keratins consist of acidic, low molecular weight proteins with MW ranging from 40 kDa (KRT19) to 64 kDa (KRT9). Type 2 keratins consist of basic or neutral, high molecular weight proteins with MW from 52 kDa (KRT8) to 67 kDa (KRT18). Keratin 19 is a type I cytokeratin. It is a biochemical marker of skin stem cells in vivo and in vitro.

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### Notable Publications

<table>
<thead>
<tr>
<th>Author</th>
<th>Pubmed ID</th>
<th>Journal</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Takako Tabata</td>
<td>3156950B</td>
<td>Vaccines (Basel)</td>
<td>IF</td>
</tr>
<tr>
<td>Sandra Ruiz García</td>
<td>31558434</td>
<td>Development</td>
<td>IF</td>
</tr>
<tr>
<td>Zichun Gu</td>
<td>28975248</td>
<td>JAMA Facial Plast Surg</td>
<td>IHC</td>
</tr>
</tbody>
</table>

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### Storage

- **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 Research Use Only**

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*** 20μl sizes contain 0.1% BSA

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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 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.
Various lysates were subjected to SDS PAGE followed by western blot with 10712-1-AP (Cytokeratin 19 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.

Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 10712-1-AP (Cytokeratin 19 antibody) at dilution of 1:6000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 10712-1-AP (Cytokeratin 19 antibody) at dilution of 1:6000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

Immunofluorescent analysis of (-20°C Methanol) fixed HaCaT cells using Cytokeratin 19 antibody (10712-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).

1X10⁶ HT-29 cells were intracellularly stained with 0.4 ug Anti-Human Cytokeratin 19 (10712-1-AP) (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).