EPCAM Polyclonal ANTIBODY

Catalog Number: 21050-1-AP

Basic Information

- **Catalog Number:** 21050-1-AP
- **Size:** 43 μg/150 μl
- **Source:** Rabbit
- **Isotype:** IgG
- **Purification Method:** Antigen affinity purification
- **Immunogen Catalog Number:** AG15393
- **GenBank Accession Number:** BC014785
- **GeneID (NCBI):** 4072
- **Full Name:** epithelial cell adhesion molecule
- **Calculated MW:** 314aa, 35 kDa
- **Observed MW:** 35-40 kDa

Applications

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

Recommended Dilutions:

- **WB:** 1:500-1:2000
- **IHC:** 1:50-1:500
- **IF:** 1:20-1:200

Background Information

Epithelial cell adhesion molecule (EpCAM, CD326) is a type I transmembrane glycoprotein that functions as a homophilic, epithelial-specific intercellular cell-adhesion molecule. In addition to cell adhesion, EpCAM is also involved in cellular signaling, cell migration, proliferation, and differentiation. EpCAM is highly expressed on most carcinomas and therefore of potential use as a diagnostic and prognostic marker for a variety of carcinomas, and has become a therapeutic target. EpCAM may occur in distinct forms due to glycosylation. (PMID: 20837599; 19249674; 21576002; 22647938; 12691820)

Notable Publications

<table>
<thead>
<tr>
<th>Author</th>
<th>PubMed ID</th>
<th>Journal</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Haiyong Wang</td>
<td>27432228</td>
<td>Mol Med Rep</td>
<td>WB, IHC</td>
</tr>
<tr>
<td>Vanessa A Enriquez</td>
<td>26933126</td>
<td>Biomed Res Int</td>
<td>WB</td>
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<tr>
<td>Toru Hiraga</td>
<td>26576938</td>
<td>Int J Cancer</td>
<td>IHC</td>
</tr>
</tbody>
</table>

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**

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) 405-8498 (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

WB result of EPCAM antibody (21050-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-EPCAM transfected A431 cells

A431 cells were subjected to SDS PAGE followed by western blot with 21050-1-AP EPCAM antibody at dilution of 1:1000 incubated at room temperature for 1.5 hours.

Immunohistochemistry of paraffin-embedded human breast cancer tissue slide using 21050-1-AP EPCAM Antibody at dilution of 1:200 (under 10x lens).

Immunohistochemistry of paraffin-embedded human breast cancer tissue slide using 21050-1-AP EPCAM Antibody at dilution of 1:200 (under 40x lens).

Immunofluorescent analysis of 4% PFA fixed human colon cancer tissue using 21050-1-AP EPCAM antibody at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).

Immunofluorescent analysis of 4% PFA fixed human colon cancer tissue using 21050-1-AP EPCAM antibody at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).

Immunofluorescent analysis of A431 cells using 21050-1-AP EPCAM antibody at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).