

## Polyclonal Antibody to T1A-2 (N-term) - Purified

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| <b>Alternate names:</b>  | HT1A-1, hT1a-1, lung type-I cell membrane-associated glycoprotein  |
| <b>Catalog No.:</b>      | AP11876PU-N  |
| <b>Quantity:</b>         | 0.1 mg   |
| <b>Concentration:</b>    | 0.25 mg/ml   |
| <b>Background:</b>       | Expressed at the plasma membrane in epithelia involved in fluid transport, including type I alveolar epithelial cells, choroid plexus, and ciliary epithelium, the specific function of this protein has not been determined but it has been proposed as a marker of lung injury. T1A-2 has a broad tissue distribution with strong expression in lung, placenta and skeletal muscle. The physiological function of this protein may be related to its mucin-type character. The homologous protein in other species has been described as a differentiation antigen and influenza-virus receptor. |
| <b>Host / Isotype:</b>   | Rabbit / Ig  |
| <b>Immunogen:</b>        | This antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide selected from the N-terminal region of human T1A-2.  |
| <b>Format:</b>           | <b>State:</b> Liquid Ig fraction<br><b>Purification:</b> Protein G column, eluted with high and low pH buffers and neutralized immediately, followed by dialysis against PBS<br><b>Buffer System:</b> PBS with 0.09% (W/V) sodium azide  |
| <b>Applications:</b>     | ELISA 1:1,000.<br>Immunohistochemistry 1:50 - 1:100.<br>Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.   |
| <b>Specificity:</b>      | This antibody detects Podoplanin / GP36 / TIA-2 at N-term.<br><b>Species:</b> Human.<br>Other species not tested.  |
| <b>Add. Information:</b> | Molecular weight: 16684 Da   |
| <b>Storage:</b>          | Store the antibody at 2 - 8 °C up to one month or (in aliquots) at -20 °C for longer. Avoid repeated freezing and thawing.<br>Shelf life: one year from despatch.  |
| <b>General Readings:</b> | 1. Kato, Y., et al., J. Biol. Chem. 278(51):51599-51605 (2003).<br>2. Ma, T., et al., Am. J. Respir. Cell Mol. Biol. 19(1):143-149 (1998).<br>3. Zimmer, G., et al., Biochem. J. 341 (Pt 2), 277-284 (1999).   |

**Pictures:**

Formalin-fixed and paraffin-embedded human hepatocarcinoma reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

