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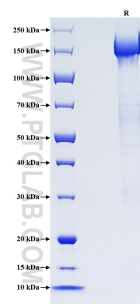
# Recombinant Human PAPPA2 protein (rFc Tag)



Catalog Number: Eg2812

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| Basic Information                                                                        | Species:<br>Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Purity:<br>>90 %, SDS-PAGE                                                                                                        | Tag:<br>rFc Tag |
| Technical Specifications                                                                 | <p><b>Purity:</b><br/>&gt;90 %, SDS-PAGE</p> <p><b>Endotoxin Level:</b><br/>&lt;0.1 EU/µg protein, LAL method</p> <p><b>Source:</b><br/>HEK293-derived Human PAPPA2 protein Ser234-Cys1396 (Accession# Q9BXP8-1) with a rabbit IgG Fc tag at the C-terminus.</p> <p><b>GeneID:</b><br/>60676</p> <p><b>Accession:</b><br/>Q9BXP8-1</p> <p><b>Predicted Molecular Mass:</b><br/>155.2 kDa</p> <p><b>SDS-PAGE:</b><br/>140-220 kDa, reducing (R) conditions</p> <p><b>Formulation:</b><br/>Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.</p> |                                                                                                                                   |                 |
| Biological Activity                                                                      | Not tested                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                   |                 |
| Storage and Shipping                                                                     | <p><b>Storage:</b><br/>It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"><li>• Until expiry date, -20°C to -80°C as lyophilized proteins.</li><li>• 3 months, -20°C to -80°C under sterile conditions after reconstitution.</li></ul> <p><b>Shipping:</b><br/>The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.</p>                                                                                                                                                               |                                                                                                                                   |                 |
| Reconstitution                                                                           | Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                   |                 |
| Background                                                                               | <p>PAPPA2 (pregnancy-associated plasma protein-A2) was discovered as a protease which specifically cleaves IGF-binding protein (IGFBP)-3 and -5. PAPPA2 is very highly expressed in the placenta relative to all other tissues. PAPPA2 mRNA and protein are increased in association with pre-eclampsia. PAPPA2 deficiency results in growth impairment in humans with expected derangements in biochemical parameters including increased levels of total IGF-1, IGFBP-3, ALS, and growth hormone.</p>                                                                                                                                       |                                                                                                                                   |                 |
| References                                                                               | <p>1. Sifakis S, et al. (2018). Mol Med Rep. May;17(5):6435-6440.<br/>2. Fujimoto M, et al. (2020). Mol Cell Endocrinol. Dec 1;518:110967.<br/>3. Andrew M, et al. (2018). J Endocr Soc. May 28;2(7):646-656.</p>                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                   |                 |
| Synonyms                                                                                 | PAPPA2, PAPP A2, PAPP E, pappalysin 2, PAPPE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                   |                 |
| 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<br>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



Purity of Recombinant Human PAPPA2 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) conditions and stained using Coomassie blue.