

## Rabbit anti-Human PAPD5 Polyclonal Antibody | anti-PAPD5 antibody

PAPD5 Antibody (N-term)

|                               |                       |                            |                                            |
|-------------------------------|-----------------------|----------------------------|--------------------------------------------|
| CATALOG #<br><b>AAA288755</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human</b> | APPLICATIONS<br><b>ELISA, Western Blot</b> |
|-------------------------------|-----------------------|----------------------------|--------------------------------------------|

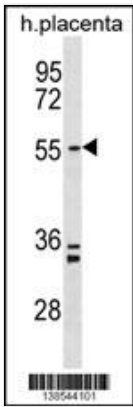
### PRODUCT SYNONYMS

PAPD5; Polyclonal Antibody; PAPD5 Antibody (N-term); Non-canonical poly(A) RNA polymerase PAPD5; PAP-associated domain-containing protein 5; Terminal uridylyltransferase 3; TUTase 3; Topoisomerase-related function protein 4-2; TRF4-2; anti-PAPD5 antibody

### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Reactivity                                      | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Clonality                                       | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Isotype                                         | Rabbit Ig                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Specificity                                     | This PAPD5 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human PAPD5.                                                                                                                                                                                                                                                                                                                                                                                  |
| Form/Format                                     | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.                                                                                                                                                                                                                                                                                                                                                                         |
| Sequence Positions                              | 1-30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Sequence Length                                 | 698                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Applicable Applications for anti-PAPD5 antibody | ELISA, WB (Western Blot)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Function                                        | Catalytic subunit of a TRAMP-like complex which has a poly(A) RNA polymerase activity and is involved in a post-transcriptional quality control mechanism. Polyadenylation with short oligo(A) tails is required for the degradative activity of the exosome on several of its nuclear RNA substrates. Doesn't need a cofactor for polyadenylation activity (in vitro). Plays a role in replication-dependent histone mRNA degradation, probably through terminal uridylation of mature histone mRNAs. May play a role in sister chromatid cohesion. |
| Cellular Location                               | Nucleus. Nucleus, nucleolus. Cytoplasm. Note=Predominantly expressed in the cytoplasm (PubMed:18172165)                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Preparation and Storage                         | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles                                                                                                                                                                                                                                                                                                                                                                                                               |

IMAGES



**WB (Western Blot)**  
PAPD5 Antibody (N-term) western blot analysis in human placenta tissue lysates (35ug/lane). This demonstrates the PAPD5 Antibody detected the PAPD5 protein (arrow).

ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                                                 |
|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-PAPD5 antibody | PAPD5 plays a role in replication-dependent histone mRNA degradation. May be involved in the terminal uridylation of mature histone mRNAs before their degradation is initiated. DNA polymerase, probably involved in DNA repair. May play a role in sister chromatid cohesion. |
| References                                          | Rose, J. Phd, et al. Mol. Med. (2010) In press :<br>Mullen, T.E., et al. Genes Dev. 22(1):50-65(2008)<br>Walowsky, C., et al. J. Biol. Chem. 274(11):7302-7308(1999)                                                                                                            |

NCBI AND UNIPROT INFORMATION

|                                  |                                                      |
|----------------------------------|------------------------------------------------------|
| NCBI GI #                        | 256818780                                            |
| NCBI GeneID                      | 64282                                                |
| NCBI Accession #                 | NP_001035374.2; NP_001035375.2                       |
| NCBI GenBank Nucleotide #        | NM_001040284.2                                       |
| UniProt Accession #              | Q8NDF8; Q9NW67; Q9Y6C0; B4DV38                       |
| NCBI Official Full Name          | non-canonical poly(A) RNA polymerase PAPD5 isoform a |
| NCBI Official Synonym Full Names | PAP associated domain containing 5                   |
| NCBI Official Symbol             | PAPD5                                                |
| NCBI Official Synonym Symbols    | TRF4-2                                               |
| NCBI Protein Information         | non-canonical poly(A) RNA polymerase PAPD5           |
| UniProt Protein Name             | Non-canonical poly(A) RNA polymerase PAPD5           |
| UniProt Gene Name                | PAPD5                                                |
| UniProt Synonym Gene Names       | TUTase 3; TRF4-2                                     |
| UniProt Entry Name               | PAPD5_HUMAN                                          |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.