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Datasheet for 600-401-DQ2

# PLAC3 Antibody

## Overview

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| **Description:** | Anti-PLAC3 (RABBIT) Antibody - 600-401-DQ2 |
| **Item No.:** | 600-401-DQ2 |
| **Size:** | 100 µg |
| **Applications:** | ELISA, IF, IHC, WB |
| **Reactivity:** | Human, Mouse, Rat |
| **Host Species:** | Rabbit |

## Product Details

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| **Background:** | PLAC3 (placenta-specific protein 3), also known as PAPP-A2, is a metalloproteinase that cleaves the insulin-like growth factor-binding protein (IGFBP)-5 in a IGF-independent fashion. It has been suggested that the cleavage of IGFBP-5 and to a lesser extent IGFBP-3 produced in the maternal decidua promotes feto-placental growth. Recent studies have shown elevated levels of PLAC3 in hypertensive disorders of pregnancy including preeclampsia and HELLP (hemolysis, elevated liver enzymes, and low platelets) syndrome. |
| **Synonyms:** | PLAC3 Antibody, PAPPE, PLAC3, PAPP-E, PAPP-A2, Pappalysin-2, Pregnancy-associated plasma protein A2 |
| **Host Species:** | Rabbit |
| **Clonality:** | Polyclonal |
| **Format:** | IgG |

## Target Details

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| **Gene Name:** | PAPPA2 |
| **Reactivity:** | Human, Mouse, Rat |
| **Immunogen Type:** | Conjugated Peptide |
| **Immunogen:** | Anti-PLAC3 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 15 amino acid synthetic peptide near the N-terminus of human PLAC3. |

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| **Purity/Specificity:** | Anti-PLAC3 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with PLAC3 from other sources has not been determined. |
| **Relevant Links:** | • UniProtKB - Q9BXP8<br>• GeneID - 60676<br>• NCBI - NP_064714 |

## Application Details

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| **Tested Applications:** | ELISA, IF, IHC, WB |
| **Application Note:** | Anti-PLAC3 Antibody has been tested for use in ELISA, Western Blotting, Immunocytochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 199 kDa in Western Blots of specific cell lysates and tissues. |
| **Assay Dilutions:** | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below. |
| **ELISA:** | 1:10,000 |
| **IF:** | 20 µg/mL |
| **WB:** | 1 µg/mL |

## Formulation

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| **Physical State:** | Liquid (sterile filtered) |
| **Concentration:** | 1 mg/mL by UV absorbance at 280 nm |
| **Buffer:** | 0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2 |
| **Preservative:** | 0.02% (w/v) Sodium Azide |
| **Stabilizer:** | None |

## Shipping & Handling

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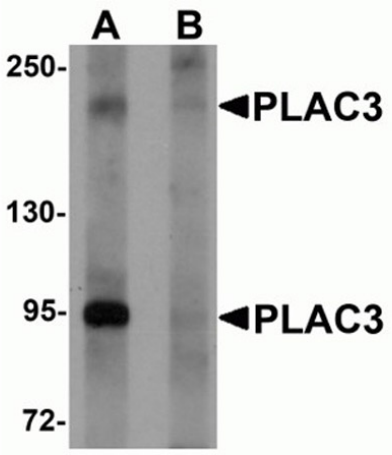
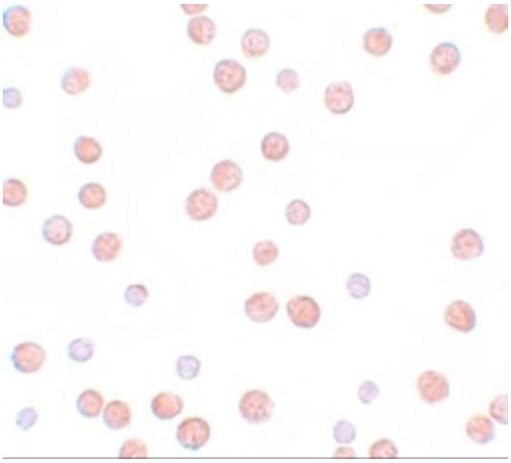
| **Shipping Condition:** | Dry Ice |
| **Storage Condition:** | Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use. |
| **Expiration:** | Expiration date is one (1) year from date of receipt. |

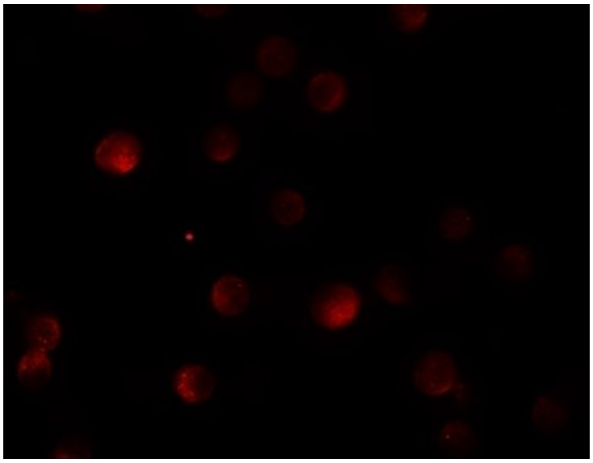
## Images




**Western Blot**
Western blot analysis of PLAC3.
Load: HeLa cell lysate.
Primary Antibody: Anti-PLAC3 antibody at 1 µg/mL in (A) the absence and (B) the presence of blocking peptide.



**Immunocytochemistry**
Immunocytochemistry of PLAC3.
Cell: HeLa cells.
Primary Antibody: Anti-PLAC3 antibody at 10 µg/mL.



**Immunofluorescence Microscopy**
Immunofluorescence of PLAC3.
Cell: HeLa cells.
Primary Antibody: Anti-PLAC3 antibody at 20 µg/mL.

## Disclaimer

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