

**Datasheet for 600-401-DQ3****PLAC4 Antibody****Overview**

|                      |                                            |
|----------------------|--------------------------------------------|
| <b>Description:</b>  | Anti-PLAC4 (RABBIT) Antibody - 600-401-DQ3 |
| <b>Item No.:</b>     | 600-401-DQ3                                |
| <b>Size:</b>         | 100 µg                                     |
| <b>Applications:</b> | ELISA, IF, IHC, WB                         |
| <b>Reactivity:</b>   | Human                                      |
| <b>Host Species:</b> | Rabbit                                     |

**Product Details**

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Background:</b>   | PLAC4 (placenta-specific protein 4), was initially discovered as a gene whose mRNA was expressed in placental syncytiotrophoblast and choriocarcinoma cells. While the function of PLAC4 is currently unclear, its gene is known to be located on chromosome 21q22.3. Due to the PLAC4 gene location on chromosome 21 and the release of its mRNA transcripts into maternal bloodstream from the placenta, it has been proposed to be a useful marker noninvasive prenatal chromosome 21 aneuploidy detection, although other reports suggests that PLAC4 mRNA levels are not altered in the maternal circulation of pregnancies with trisomy 21. |
| <b>Synonyms:</b>     | PLAC4 Antibody, PRED78, C21orf115, D21S418E, PP1416, Placenta-specific protein 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Host Species:</b> | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Clonality:</b>    | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Format:</b>       | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

**Target Details**

|                        |                                                                                                                                                                             |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name:</b>      | PLAC4                                                                                                                                                                       |
| <b>Reactivity:</b>     | Human                                                                                                                                                                       |
| <b>Immunogen Type:</b> | Conjugated Peptide                                                                                                                                                          |
| <b>Immunogen:</b>      | Anti-PLAC4 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 17 amino acid synthetic peptide near the internal region of human PLAC4. |

**Purity/Specificity:** Anti-PLAC4 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with PLAC4 from other sources has not been determined.

**Relevant Links:**

- [UniProtKB - Q8WY50](#)
- [GeneID - 191585](#)
- [NCBI - NP\\_878252](#)

## Application Details

**Tested Applications:** ELISA, IF, IHC, WB

**Application Note:** Anti-PLAC4 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 17 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 - 1:20,000

**IF:** 20 µg/mL

**WB:** 1-2 µg/mL

## Formulation

**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

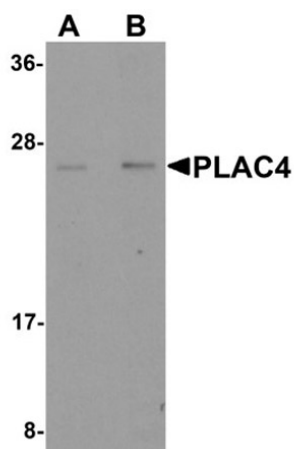
## Shipping & Handling

**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 PLAC4.

Load: human placenta tissue lysate per lane.

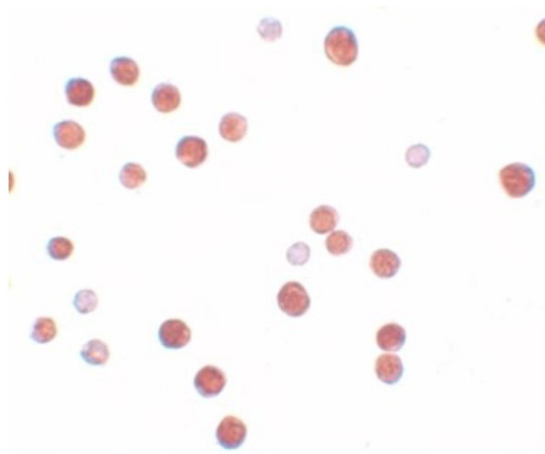
Primary Antibody: Anti-PLAC4 antibody at (A) 1 µg/mL and (B) 2 µg/mL.

### Immunocytochemistry

Immunocytochemistry of PLAC4.

Cell: HeLa cells.

Primary Antibody: Anti-PLAC4 antibody at 10 µg/mL.

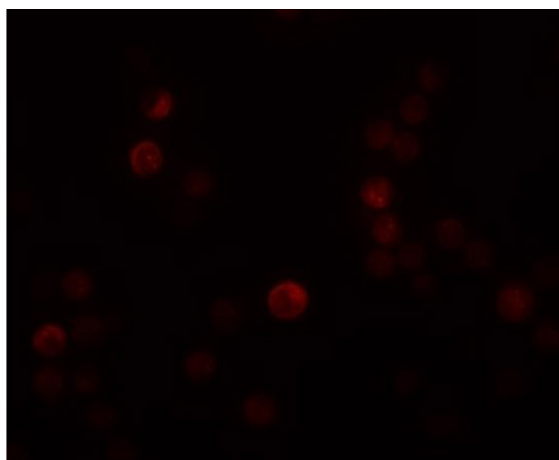


### Immunofluorescence Microscopy

Immunofluorescence of PLAC4.

Cell: HeLa cells.

Primary Antibody: Anti-PLAC4 antibody at 20 µg/mL.



## Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.