

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

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

Product Details

Background:	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.
Synonyms:	PLAC4 Antibody, PRED78, C21orf115, D21S418E, PP1416, Placenta-specific protein 4
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	PLAC4
Reactivity:	Human
Immunogen Type:	Conjugated Peptide
Immunogen:	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

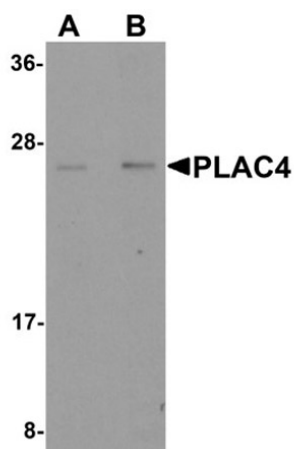
Shipping & Handling

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.

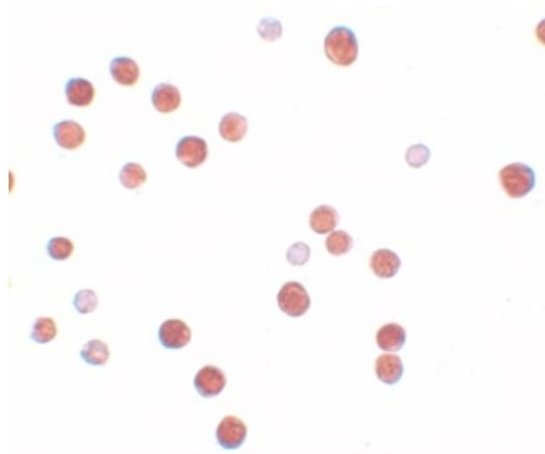
Primary Antibody: Anti-PLAC4 antibody at (A) 1 μ g/mL and (B) 2 μ g/mL.

Immunocytochemistry

Immunocytochemistry of PLAC4.

Cell: HeLa cells.

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

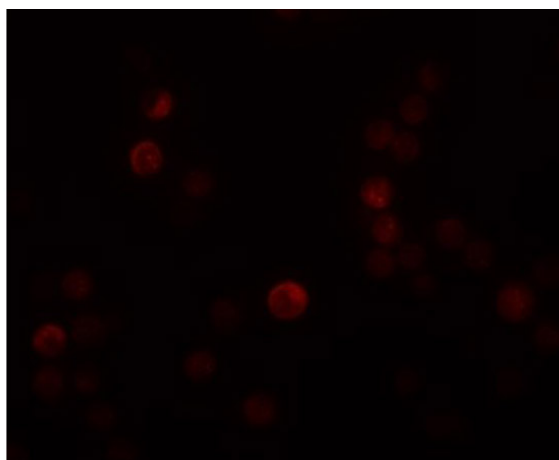


Immunofluorescence Microscopy

Immunofluorescence of PLAC4.

Cell: HeLa cells.

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



Disclaimer

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