

Datasheet for 600-401-DQ0**PLAC1 Antibody****Overview**

Description:	Anti-PLAC1 (RABBIT) Antibody - 600-401-DQ0
Item No.:	600-401-DQ0
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	PLAC1 was initially identified as a protein expressed specifically in the placenta and other cells derived from the trophoblast lineage during embryonic development, but has also been found to be expressed ectopically in a wide range of human malignancies, particularly breast cancers. PLAC1 is a membrane-associated protein that is thought to serve a receptor-like function modulating cell-cell or ligand receptor interactions unique to the maternal-placental interface. Decreased expression of PLAC1 is associated with decreased expression of cyclin D1 and reduced expression of AKT kinase, which, combined with the fact that PLAC1 is expressed on the surface of cancer cells, suggests that PLAC1 may be an effective candidate for immunotherapeutic treatments of cancer.
Synonyms:	PLAC1 Antibody, CT92, OOSP2L, Placenta-specific protein 1
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	PLAC1
Reactivity:	Human
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-PLAC1 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 15 amino acid synthetic peptide near the C-terminus of human PLAC1.

Purity/Specificity: Anti-PLAC1 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with PLAC1 from other sources has not been determined.

Relevant Links:

- [UniProtKB - Q9HBJ0](#)
- [GeneID - 10761](#)
- [NCBI - NP_068568](#)

Application Details

Tested Applications: ELISA, IF, IHC, WB

Application Note: Anti-PLAC1 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 24 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

Physical State: Liquid (sterile filtered)

Concentration: 1.0 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

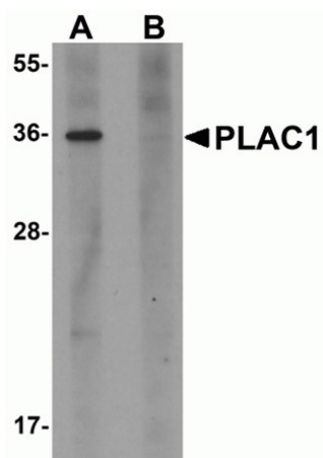
Shipping & Handling

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 PLAC1.

Load: human placenta tissue lysate.

Primary Antibody: Anti-PLAC1 antibody at 1 $\mu\text{g/mL}$ in (A) the absence and (B) the presence of blocking peptide.

Immunocytochemistry

Immunocytochemistry of PLAC1.

Cell: HeLa cells.

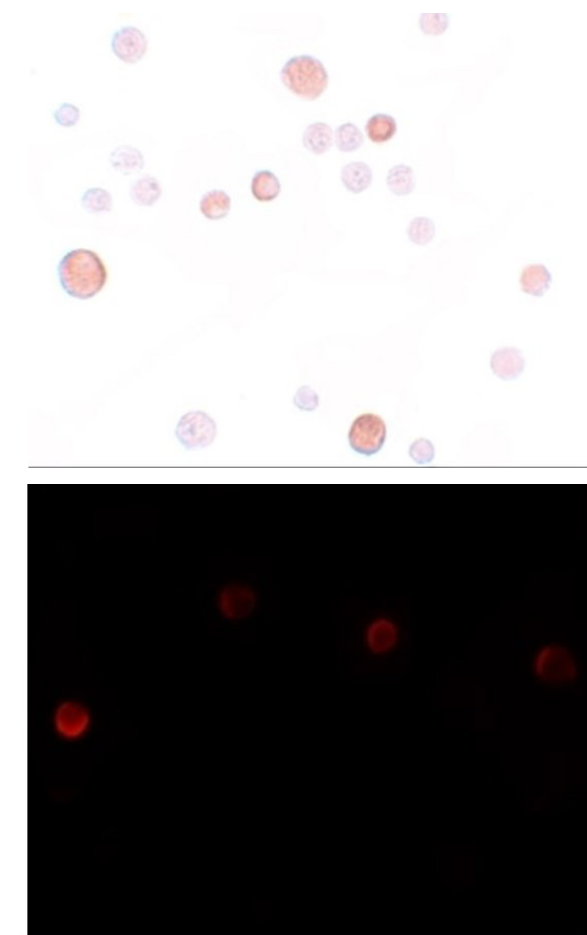
Primary Antibody: Anti-PLAC1 antibody at 10 $\mu\text{g/mL}$.

Immunofluorescence Microscopy

Immunofluorescence of PLAC1.

Cell: HeLa cells.

Primary Antibody: Anti-PLAC1 antibody at 20 $\mu\text{g/mL}$.



Disclaimer

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