

Datasheet for 600-401-DQ2**PLAC3 Antibody****Overview**

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

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 fetoplacental 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

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.

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](#)
- [GeneID - 60676](#)
- [NCBI - NP_064714](#)

Application Details

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

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

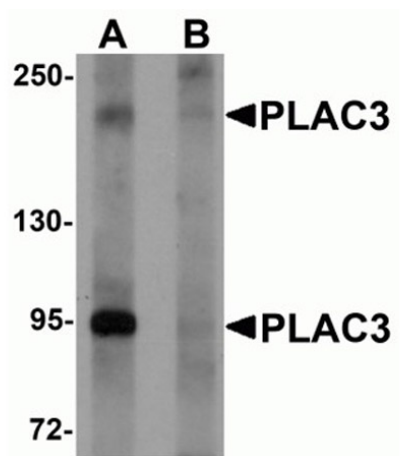
Shipping & Handling

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

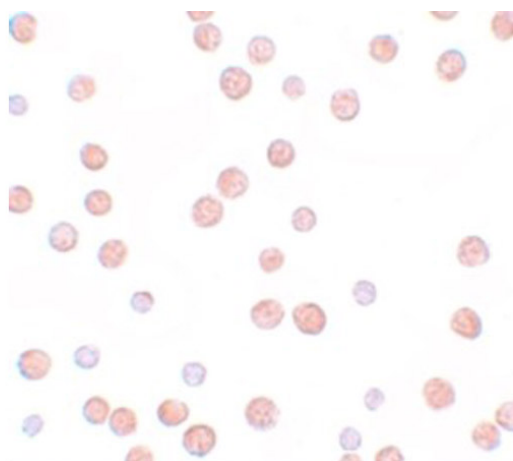


Western Blot

Western blot analysis of 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.

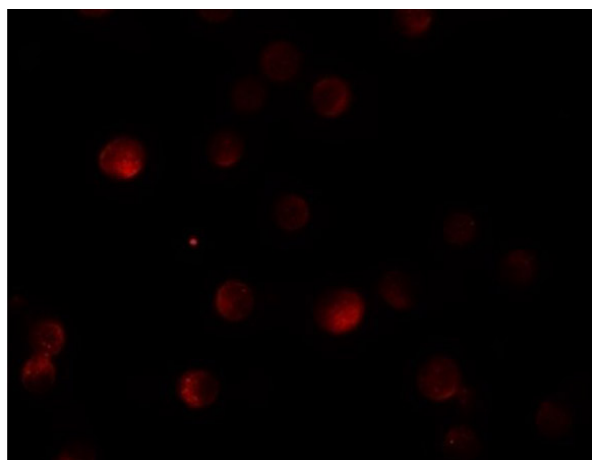


Immunocytochemistry

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

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.