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Datasheet for 200-401-908

CD97 Antibody

Overview

Description:	Anti-CD97 (RABBIT) Antibody - 200-401-908
Item No.:	200-401-908
Size:	500 µg
Applications:	IF, WB
Reactivity:	Human, Chimpanzee
Host Species:	Rabbit

Product Details

Background:	This antibody is designed, produced, and validated as part of a collaboration between Rockland and the National Cancer Institute (NCI) and is suitable for Cancer, Immunology and Nuclear Signaling research. CD97 is a membrane antigen that is either constitutively expressed or induced by activation on cells of the immune system including colon, thyroid, stomach, and esophagus. One high affinity ligand that has been identified for CD97 is the integrin alpha 5 beta 1. CD97 engagement of endothelial alpha5 beta 1 results in increased angiogenesis. Signals generated through CD97 are thought to result in Rho activation and the regulation of motility. Anti-CD97 is ideal for researchers interested in cancer, angiogenesis, and inflammation.
Synonyms:	rabbit anti-CD97 Antibody, CD97 antigen antibody, CD97 molecule antibody, Leukocyte antigen CD97 antibody, CD97 antigen subunit alpha, CD97 antigen subunit beta
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	Cd97
Reactivity:	Human, Chimpanzee
Immunogen Type:	Recombinant Protein

Immunogen:	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a recombinant protein corresponding to amino acids 1-512 (extracellular domain) of mouse CD97 protein.
Purity/Specificity:	This Protein A purified antibody is directed against the mouse CD97 protein. The product was protein A purified from monospecific antiserum. A BLAST analysis was used to suggest cross reactivity with CD97 proteins from mouse (100%) and rat (74%). Only 49% homology is noted for the human homologue. Reactivity against CD97 from other sources is not known.
Relevant Links:	• NCBI - 251823835 • UniProtKB - Q9Z0M6 • GeneID - 26364

Application Details

Tested Applications:	IF, WB
Application Note:	This Protein A purified antibody has been tested for use in immunofluorescence microscopy and western blot. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 81 kDa in size corresponding to isoform 1 of CD97 protein by western blotting in the appropriate cell lysate or extract.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000 - 1:50,000
IF:	1:1,000 - 1:5,000
WB:	1:1,000 - 1:5,000

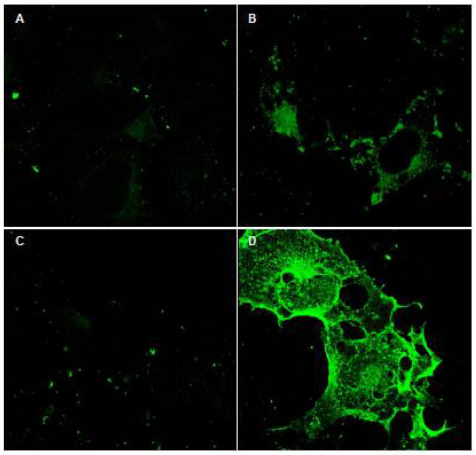
Formulation

Physical State:	Lyophilized
Concentration:	5.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None
Reconstitution Volume:	100 µL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

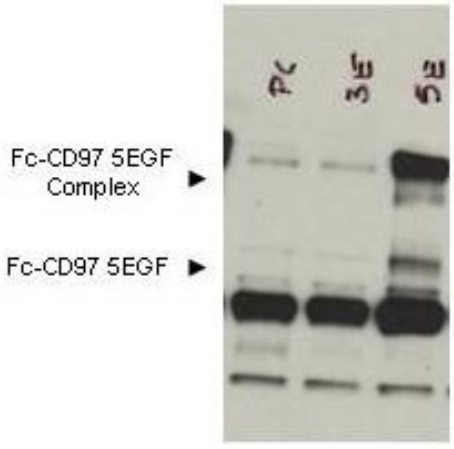
Shipping & Handling

Shipping Condition:	Ambient
Storage Condition:	Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. 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



Immunofluorescence Microscopy
Immunofluorescence Microscopy using Rockland's Protein A purified anti-CD97 antibody shows staining of Fc-CD97-(5EGF) (panel D) in transfected COS cells. Panel A and C shows similar staining using pre-immune serum. Panel A and B show staining of mock transfected COS cells (no vector). A 1:2,500 dilution of the primary antibody was used. Personal Communication. Yvona Ward. NIH, NCI, CCR, Bethesda, MD.



Western Blot
Western blot using Rockland's Protein A purified anti-CD97 antibody Lane 1: lysate from cells transfected with control DNA. Lane 2: bone marrow lysates taken from CD97 knockout mice. Lane 3: lysate from COS cells expressing Fc-CD97- (5EGF). Load: 10µL per lane. Primary Antibody: 1:1,000 dilution of the primary antibody was used. Secondary Antibody: Exposure: 10-sec. Results: The formation of the CD97 complex is currently under investigation. A shows detection of bands corresponding to free Fc-CD97- (5EGF) (lower arrowhead) and Fc-CD97- (5EGF) present as a complex (upper arrowhead) in lysates from COS cells. No staining was noted from bone marrow lysates taken from CD97 knockout mice. ~65 kDa appearing in all lanes is not known. Personal Communication. Yvona Ward. NIH, NCI, CCR, Bethesda, MD.

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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.