

**Datasheet for 200-401-908****CD97 Antibody****Overview**

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

**Product Details**

<b>Background:</b>	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.
<b>Synonyms:</b>	rabbit anti-CD97 Antibody, CD97 antigen antibody, CD97 molecule antibody, Leukocyte antigen CD97 antibody, CD97 antigen subunit alpha, CD97 antigen subunit beta
<b>Host Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>Format:</b>	IgG

**Target Details**

<b>Gene Name:</b>	Cd97
<b>Reactivity:</b>	Human, Chimpanzee
<b>Immunogen Type:</b>	Recombinant Protein

<b>Immunogen:</b>	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.
<b>Purity/Specificity:</b>	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.
<b>Relevant Links:</b>	<ul style="list-style-type: none"><li>• <a href="#">NCBI - 251823835</a></li><li>• <a href="#">UniProtKB - Q9Z0M6</a></li><li>• <a href="#">GeneID - 26364</a></li></ul>

## Application Details

<b>Tested Applications:</b>	IF, WB
<b>Application Note:</b>	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.
<b>Assay Dilutions:</b>	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
<b>ELISA:</b>	1:10,000 - 1:50,000
<b>IF:</b>	1:1,000 - 1:5,000
<b>WB:</b>	1:1,000 - 1:5,000

## Formulation

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

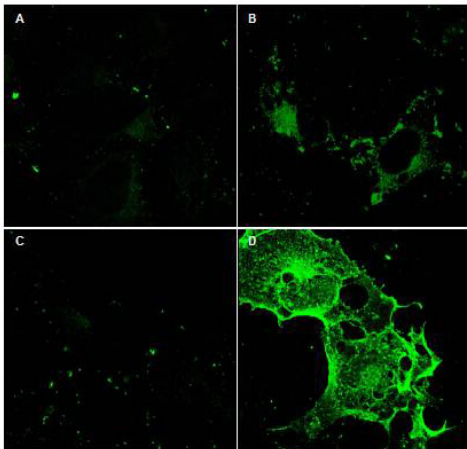
## Shipping & Handling

**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.

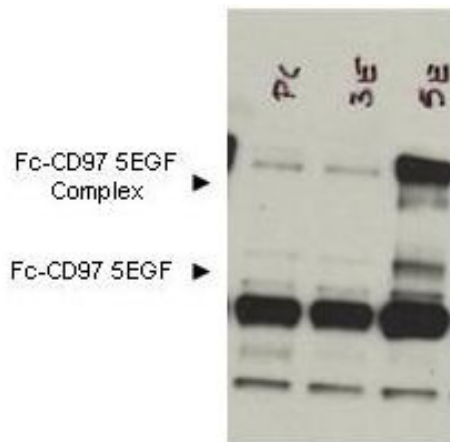
**Expiration:** Expiration date is one (1) year from date of receipt.

## 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.

## Disclaimer

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