

Rabbit anti-Human, Mouse CD97 Polyclonal Antibody | anti-CD97 antibody

CD97 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA323374	Rabbit	Human, Mouse	ELISA, Immunohistochemistry, Western Blot

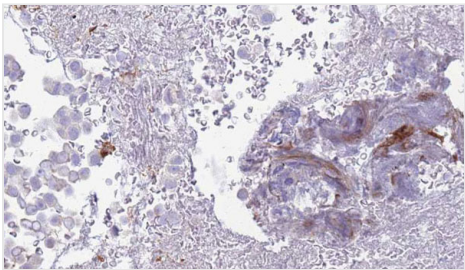
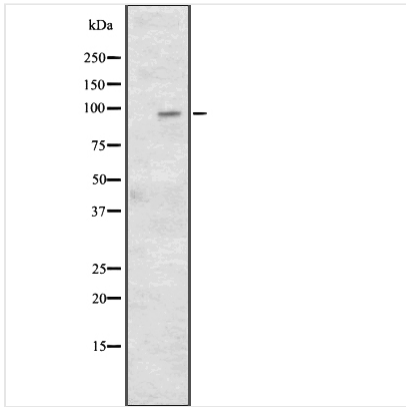
PRODUCT SYNONYMS

CD97; Polyclonal Antibody; CD97 Antibody; ADGRE5; Adhesion G protein-coupled receptor E5; CD 97; CD_antigen=CD97; CD97 antigen; CD97 antigen subunit beta; CD97 molecule; CD97_HUMAN; Leukocyte antigen CD97; Seven span transmembrane protein; Seven transmembrane helix receptor; Seven transmembrane heterodimeric receptor associated with inflammation; TM7LN 1; TM7LN1; anti-CD97 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	CD97 antibody detects endogenous levels of total CD97
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	786
Applicable Applications for anti-CD97 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Cell Membrane and Secreted > Extracellular Space.
Tissue Specificity	Broadly expressed, found on most hematopoietic cells, including activated lymphocytes, monocytes, macrophages, dendritic cells, and granulocytes. Expressed also abundantly by smooth muscle cells. Expressed in thyroid, colorectal, gastric, esophageal and pancreatic carcinomas too. Expression are increased under inflammatory conditions in the CNS of multiple sclerosis and in synovial tissue of patients with rheumatoid arthritis. Increased expression of CD97 in the synovium is accompanied by detectable levels of soluble CD97 in the synovial fluid.
Conjugation	Unconjugated

IMAGES



IHC (Immunohistochemistry)
AAA323374 at 1/100 staining Human urothelial cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

WB (Western Blot)
Western blot analysis of CD97 expression in HepG2 whole cell lysate; HCT116 whole cell lysate; The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-CD97 antibody	Function: Receptor potentially involved in both adhesion and signaling processes early after leukocyte activation. Plays an essential role in leukocyte migration (By similarity). Subunit Structure: Forms a heterodimer, consisting of a large extracellular region (alpha subunit) non-covalently linked to a seven-transmembrane moiety (beta subunit). Interacts with complement decay-accelerating factor (DAF). The largest isoform (isoform 1) interacts with chondroitin sulfate. Post-translational Modifications: Proteolytically cleaved into 2 subunits, an extracellular alpha subunit and a seven-transmembrane subunit. Similarity: The first two EGF domains mediate the interaction with DAF. A third tandemly arranged EGF domain is necessary for the structural integrity of the binding region. Binding to chondroitin sulfate is mediated by the fourth EGF domain. Belongs to the G-protein coupled receptor 2 family. LN-TM7 subfamily.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	68508955
NCBI GeneID	976
NCBI Accession #	NP_001020331.1
NCBI GenBank Nucleotide #	NM_001025160.2
UniProt Accession #	P48960; O00718; O76101; Q8NG72; Q8TBQ7; A8K7Z4; B2RBJ9
Molecular Weight	Observed: 92 kDa Predicted: 92 kDa
NCBI Official Full Name	CD97 antigen isoform 3 preproprotein
NCBI Official Synonym Full Names	adhesion G protein-coupled receptor E5
NCBI Official Symbol	ADGRE5
NCBI Official Synonym Symbols	CD97; TM7LN1
NCBI Protein Information	CD97 antigen
UniProt Protein Name	CD97 antigen
UniProt Gene Name	CD97

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

