

**Cleaved-CD97 $\beta$  (S531) Polyclonal Antibody**

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| <b>Catalog No :</b>          | YC0048  |
| <b>Reactivity :</b>          | Human;Rat;Mouse;  |
| <b>Applications :</b>        | WB;ELISA  |
| <b>Target :</b>              | CD97 $\beta$  |
| <b>Gene Name :</b>           | CD97  |
| <b>Protein Name :</b>        | CD97 antigen  |
| <b>Human Gene Id :</b>       | 976   |
| <b>Human Swiss Prot No :</b> | P48960  |
| <b>Mouse Swiss Prot No :</b> | Q9Z0M6  |
| <b>Immunogen :</b>           | The antiserum was produced against synthesized peptide derived from human CD97 beta. AA range:512-561   |
| <b>Specificity :</b>         | Cleaved-CD97 $\beta$ (S531) Polyclonal Antibody detects endogenous levels of fragment of activated CD97 $\beta$ protein resulting from cleavage adjacent to S531. |
| <b>Formulation :</b>         | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.   |
| <b>Source :</b>              | Polyclonal, Rabbit,IgG  |
| <b>Dilution :</b>            | WB 1:500 - 1:2000. ELISA: 1:5000. Not yet tested in other applications.   |
| <b>Purification :</b>        | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.   |
| <b>Concentration :</b>       | 1 mg/ml   |
| <b>Storage Stability :</b>   | -15°C to -25°C/1 year(Do not lower than -25°C)  |
| <b>Observed Band :</b>       | 34kD  |

**Background :** This gene encodes a member of the EGF-TM7 subfamily of adhesion G protein-coupled receptors, which mediate cell-cell interactions. These proteins are cleaved by self-catalytic proteolysis into a large extracellular subunit and seven-span transmembrane subunit, which associate at the cell surface as a receptor complex. The encoded protein may play a role in cell adhesion as well as leukocyte recruitment, activation and migration, and contains multiple extracellular EGF-like repeats which mediate binding to chondroitin sulfate and the cell surface complement regulatory protein CD55. Expression of this gene may play a role in the progression of several types of cancer. Alternatively spliced transcript variants encoding multiple isoforms with 3 to 5 EGF-like repeats have been observed for this gene. This gene is found in a cluster with other EGF-TM7 genes on the short arm of chromosome 1

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**Function :** domain:Binding to chondroitin sulfate is mediated by the fourth EGF domain.,domain: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.,function:Receptor potentially involved in both adhesion and signaling processes early after leukocyte activation. Plays an essential role in leukocyte migration.,induction:Rapid up-regulation during lymphocyte activation.,PTM:Proteolytically cleaved into 2 subunits, an extracellular alpha subunit and a seven-transmembrane subunit.,similarity:Belongs to the G-protein coupled receptor 2 family. LN-TM7 subfamily.,similarity:Contains 1 GPS domain.,similarity:Contains 5 EGF-like domains.,subunit:Forms a heterodimer, consisting of a large extracellular region (alpha subunit) non-covalently linked to a seven-transmembrane moiety (beta subunit). Interacts

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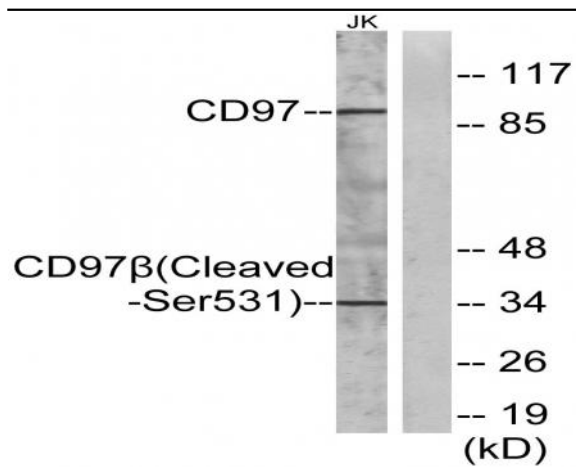
**Subcellular Location :** Cell membrane ; Multi-pass membrane protein .; [Adhesion G protein-coupled receptor E5 subunit alpha]: Secreted, extracellular space .

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**Expression :** 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.

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## Products Images



Western blot analysis of lysates from Jurkat cells, treated with etoposide 25 $\mu$ M 24h, using CD97 beta (Cleaved-Ser531) Antibody. The lane on the right is blocked with the synthesized peptide.