

Active Recombinant Human PROCR protein, His-GST-tagged

Cat. No. PROCR-568H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human PROCR protein(Q9UNN8)(18~210 aa), fused with N-terminal His tag and GST tag, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	18-210 aa
Form	Lyophilized from sterile PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Bio-activity	Endothelial protein C receptor (EPCR) also known as CD201, is a transmembrane glycoprotein expressed on vascular endothelial cells and functions as a negative regulator of thrombosis. It is expressed most strongly in the endothelial cells of arteries and veins in heart and lung. Mature human EPCR consists of a 193 amino acid (aa) extracellular domain (ECD), a 21 aa transmembrane segment, and a 7 aa cytoplasmic tail. Within the ECD, human EPCR shares 63% and 66% aa sequence identity with mouse and rat EPCR, respectively. EPCR inhibits thrombosis through its interactions with Protein C, activated Protein C (APC), and Coagulation Factors VII, and VIIa. Thus a functional binding ELISA assay was conducted to detect the interaction of recombinant human EPCR and recombinant rat Coagulation Factor VII (F7). Briefly, EPCR was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to F7-coated microtiter wells and incubated

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for 1h at 37°C. Wells were washed with PBST and incubated for 1h with anti-EPCR pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody for 1h at 37°C, wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50 µ stop solution to the wells and read at 450/630nm immediately. The binding activity of recombinant human EPCR and recombinant rat F7 was shown, the EC50 for this effect is 0.06 ug/mL.

Molecular Mass	52.0kDa
Endotoxin	<1.0EU per 1µg (determined by the LAL method).
Purity	> 80% as determined by SDS-PAGE.
Storage	Avoid repeated freeze/thaw cycles. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.
Reconstitution	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	PROCR protein C receptor, endothelial [Homo sapiens]
Official Symbol	PROCR
Synonyms	PROCR; protein C receptor, endothelial; endothelial protein C receptor; CCD41; CD201; EPCR; APC receptor; centrocyclin; CD201 antigen; activated protein C receptor; endothelial cell protein C receptor; cell cycle, centrosome-associated protein; CCCA; bA42O4.2; MGC23024;

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Gene ID 10544

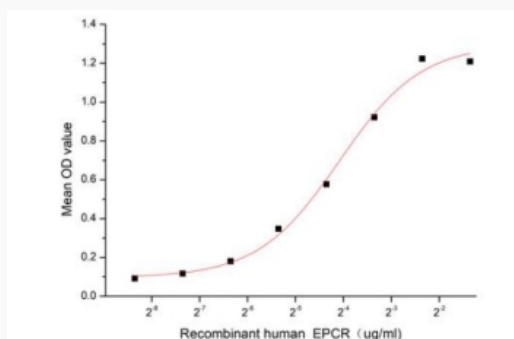
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Protein Refseq NP_006395

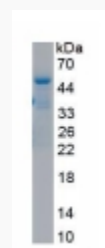
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UniProt ID Q9UNN8

Activity



SDS-PAGE



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