

32-9007: Recombinant Mouse Platelet glycoprotein 4/CD36 (C-Fc)

Gene : Cd36
Gene ID : 12491
Uniprot ID : Q08857

Description

Source: Human Cells.
MW :73.5kD.

Recombinant Mouse Platelet Glycoprotein 4 is produced by our Mammalian expression system and the target gene encoding Gly30Lys439 is expressed with a Fc tag at the C-terminus. Platelet Glycoprotein 4(CD36) belongs to the class B scavenger receptor family. The molecule CD36 is synthesized as a 472 amino acid (aa) protein that contains a 6 aa N-terminal cytoplasmic domain, a 22 aa N-terminal transmembrane segment, a 420 aa extracellular "loop", a 22 aa C-terminal transmembrane segment, and a 9 aa C-terminal cytoplasmic tail. Both cytoplasmic tails are palmitoylated, with the C-terminal tail involved in oxidized LDL binding. With respect to the extracellular loop, the N-terminal region is believed to bind both thrombospondin-1 and Plasmodium-infected erythrocytes. Other ligands for CD36 include long-chain fatty acids, collagen, phospholipids and apoptotic cells. Cells known to express CD36 include capillary endothelium, adipocytes, skeletal muscle cells, intestinal epithelium, smooth muscle cells and hematopoietic cells such as RBC's, platelets and monocytes. On the surface of cells, CD36 is suggested to exist as a dimer in response to ligation (7). CD36 is reported to regulate fatty uptake, act as an angiogenic with TSP-1, and participate in the clearance of apoptotic phagocytes.

Product Info

Amount : 10 µg / 50 µg
Content : Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Storage condition : Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.
Amino Acid : GDMLIEKTIKREVVLEEGTTAFKNWVKTGTTVYRQFWIFDVQNPDDVAKNSSKIKVKQRGPYTYRV
RYLAKENITQDPEDHTVSFVQPNGAIFEPSLSVGTEDDNFTVLNLAVAAAPHIYQNSFVQVVLNSLIK
KSKSSMFQTRSLKELLWGYKDPFLSLVPYPISTTVGVFYPYNDTVDG VYKVFNGKDNISKVAIIESY
KGKRNL SYWPSYCDMINGTDAASFPPFVEKSRTL RFFSSDICRSIYAVFGSEIDLK GIPVYRFVLPAN
AFASPLQNP DNHCFC TEKVISNNCTSYGVLDIGKCKEGKPVYISLPHFLHASP DVSEPIEGLHPNED
EHRTYLDVEPITGFTLQFAKRLQVNILVKPARKIEALKNLKRPYIVPILWLNETGTIGDEKAEMFKTQV
TGKIKVDDIEGRMDEPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSH
EDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIE
KTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTPPVLD
SDGSFFLYSKLTVDKSRWQQGNV FSCSV MHEALHNHYTQKSLSLSPGK

Application Note

Endotoxin : Less than 0.1 ng/Åµg (1 IEU/Åµg) as determined by LAL test.