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Datasheet for ABIN1684672

CD34 Protein (CD34) (C-Term, Extracellular Domain)

Overview

Quantity:	50 µg
Target:	CD34
Protein Characteristics:	C-Term, Extracellular Domain
Origin:	Mouse
Source:	HEK-293T Cells
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Specificity:	Optimized DNA sequence encoding extracellular domain of mouse CD34 including a C-terminal 6His tag was expressed in HEK293 cells.
Characteristics:	Recombinant mouse CD34 is a monomer protein consisting of 70 amino acid residue subunits, due to glycosylation migrates as an approximately 50 kDa protein on SDS-PAGE.
Purity:	> 95 %, as determined by SDS-PAGE and HPLC
Sterility:	0.2 µm filtered
Endotoxin Level:	Endotoxin content was assayed using a LAL gel clot method. Endotoxin level was found to be less than 0.1 ng/µg (1EU/µg).

Target Details

Target:	CD34
Alternative Name:	CD34 (CD34 Products)

Target Details

Background: Parathyroid hormone is a circulating hormone that acts as the central regulator of calcium metabolism by directly targeting bone, kidney, and intestine. The classical concept of PTH action is that it regulates serum calcium levels by stimulating bone resorption, however, intermittent administration of PTH selectively stimulates bone formation. It is now known that PTH binds to its receptor PTH1R, and activates the G protein alpha subunits. Besides PKA and PKC activation, PTH also regulates MAPKs including p42/p44 ERKs, p38, and c-Jun N-terminal kinase subtypes.

UniProt: [Q64314](#)

Application Details

Comment: Biologically active: Measured by the ability to support the adhesion of the HUVEC cell line. Coated plates with immobilized recombinant mouse CD34 (0.8 µg/mL) are able to adhere 40 % of cells (4 x 10⁴ cells/well) after one hour at 37 °C

Restrictions: For Research Use only

Handling

Reconstitution: A quick spin of the vial followed by reconstitution in distilled water to a concentration not less than 0.1 mg/mL. This solution can then be diluted into other buffers

Buffer: PBS solution, pH7.2.

Handling Advice: Avoid repeated freeze/thaw cycles.

Storage: -20 °C

Storage Comment: The lyophilized protein is stable for at least years from date of receipt at -20 °C. Upon reconstitution, this cytokine can be stored in working aliquots at - 8 °C for one month, or at -20 °C for six months, with a carrier protein without detectable loss of activity.

Expiry Date: 12-24 months
