

# CD34 cell

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## Table of contents

<b>1 Overview</b>	<b>1</b>
<b>2 Clinical significance</b>	<b>1</b>

## 1 Overview

- Class of proteins first discovered on hematopoietic (blood cell production) progenitors and stem cells<sup>1</sup>
- Has been used as a hematopoietic stem and progenitor cell marker<sup>1</sup>
- Found in low frequencies in peripheral blood, can be increased by cytokines and chemotherapy<sup>1</sup>
- Can also be found on vascular endothelial cells, as well as on muscle satellite cells, keratocytes, interstitial cells, fibrocytes, epithelial progenitors and endothelial junctions between adjacent endothelial cells of humans<sup>1</sup>
- Muscle satellite cells and epidermal precursors can be identified with CD34<sup>1</sup>

## 2 Clinical significance

Can be used as a measure of contusion healing as seen in our [journal club article](#).

1. Rodrigues CR, Moga S, Singh B, Aulakh GK. CD34 Protein: Its expression and function in inflammation. *Cell and Tissue Research*. 2023;393(3):443-454. doi:[10.1007/s00441-023-03811-4](#)