

#### DESCRIPTION

<b>Species Reactivity</b>	Porcine
<b>Specificity</b>	Detects porcine CD34 in direct ELISAs and Western blots. In direct ELISAs, less than 20% cross-reactivity with recombinant rat CD34 is observed, and less than 5% cross-reactivity with recombinant mouse CD34 and recombinant human CD34 is observed.
<b>Source</b>	Polyclonal Goat IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant porcine CD34 Ala20-Thr294 (Thr32Ala, Ala52Thr, Pro71Ser, Val126Ala, His278Asn) Accession # NP_999251
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

#### APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	0.1 µg/mL	Recombinant Porcine CD34

#### PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.2 mg/mL in sterile PBS.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

#### BACKGROUND

CD34 is a 110 kDa type I transmembrane glycoprotein that belongs to the CD34/Podocalyxin family of sialomucin. It is a widely used marker of activated hematopoietic stem/progenitor cells and is also expressed on adult vascular endothelial cells. Porcine CD34 is 389 amino acids (aa) in length and is predicted to have a 272 aa extracellular domain (ECD) and a 73 aa cytoplasmic tail. An alternate 307 aa splice form with a 4 aa substitution for the C-terminal 61 amino acids also exists. Over aa 20-294, porcine CD34 shares 51%, 57% and 62% aa sequence identity with mouse, human, and canine CD34, respectively.