

#### DESCRIPTION

<b>Species Reactivity</b>	Rat
<b>Specificity</b>	Detects rat CD34 in direct ELISAs and Western blots. In these formats, less than 1% cross-reactivity with recombinant porcine 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 rat CD34 Glu37-Ile293 Accession # NP_001100672
<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 as a 0.2 µm filtered solution in PBS.

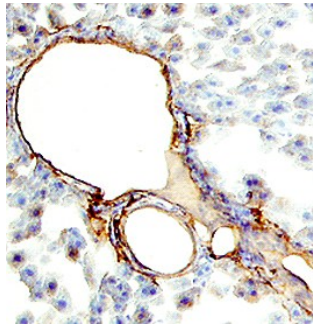
#### APPLICATIONS

**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 Rat CD34
<b>Immunohistochemistry</b>	5-15 µg/mL	See Below

#### DATA

##### Immunohistochemistry



**CD34 in Rat Liver.** CD34 was detected in perfusion fixed frozen sections of rat liver using 15 µg/mL Rat CD34 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4117) overnight at 4 °C. Tissue was stained with the Anti-Goat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). View our protocol for [Chromogenic IHC Staining of Frozen Tissue Sections](#).

#### 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

Rat CD34 is a 80-100 kDa type I transmembrane glycoprotein that belongs to the CD34/Podocalyxin family of sialomucins. It is a widely used marker of activated hematopoietic stem/progenitor cells and is also expressed on adult vascular endothelial cells. Mature rat CD34 is predicted to be a 352 amino acid (aa) protein with a 257 aa extracellular domain (ECD) (aa 35-291) and 74 aa cytoplasmic tail (aa 313-386). Over the region used as immunogen, rat CD34 shares 83% and 57% aa identity with mouse and human CD34, respectively.