

#### DESCRIPTION

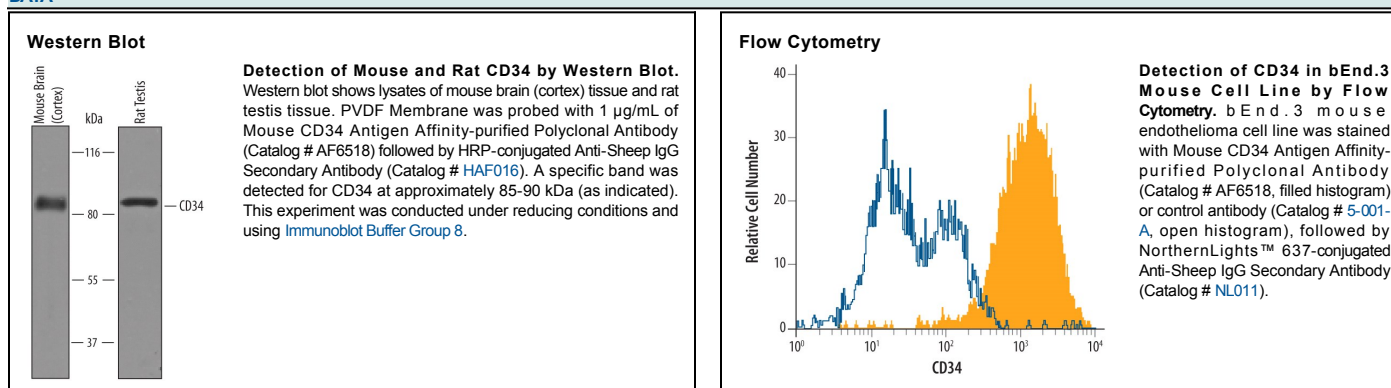
<b>Species Reactivity</b>	Mouse/Rat
<b>Specificity</b>	Detects mouse and rat CD34 in direct ELISAs and Western blots. In direct ELISAs, less than 3% cross-reactivity with recombinant porcine CD34 is observed.
<b>Source</b>	Polyclonal Sheep IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant mouse CD34 Thr35-Thr287 Accession # Q64314
<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.

	Recommended Concentration	Sample
<b>Western Blot</b>	1 µg/mL	See Below
<b>Flow Cytometry</b>	2.5 µg/10 <sup>6</sup> cells	See Below

#### DATA



#### PREPARATION AND STORAGE

<b>Reconstitution</b>	Sterile PBS to a final concentration of 0.2 mg/mL.
<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

Mouse and rat CD34 is a 80 -100 kDa member of the CD34/podocalyxin family of molecules. It is a sialomucin type glycoprotein, and presents carbohydrate to selectins during cell migration. CD34 is found on mast cells, eosinophils, vascular endothelial cells, CD34<sup>+</sup> stem cells and renal mesangial cells. Mature mouse CD34 is a 348 amino acid (aa) type I transmembrane protein (aa 35-382). It contains a 253 aa extracellular region (aa 35-287), and a 74 aa cytoplasmic domain that undergoes Tyr phosphorylation. Mouse and rat CD34 also is likely to undergo membrane cleavage that will generate a 54 kDa soluble form. Over aa 35-287, mouse CD34 shares 57% and 82% aa identity with human and rat Cd34, respectively.