

## DESCRIPTION

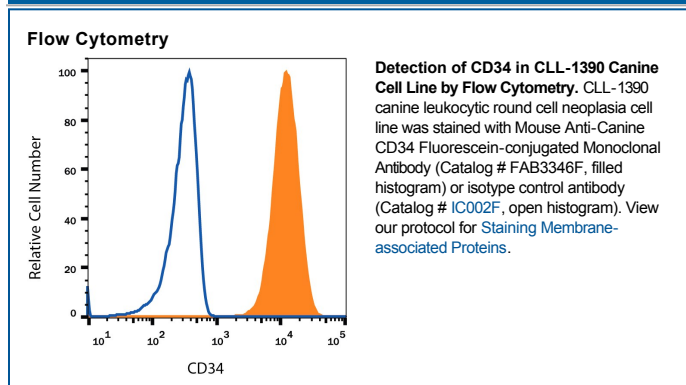
<b>Species Reactivity</b>	Canine
<b>Specificity</b>	Detects canine CD34 in Western blots.
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 1H6
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	COS-7 African green monkey SV40 transformed kidney fibroblast-like cell line-derived recombinant canine CD34 Accession # Q28270
<b>Conjugate</b>	Fluorescein Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm (FITC)
<b>Formulation</b>	Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.  *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

## 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>Flow Cytometry</b>	10 $\mu$ L/10 <sup>6</sup> cells	See Below

## DATA



## PREPARATION AND STORAGE

<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	<b>Protect from light. Do not freeze.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, 2 to 8 °C as supplied.</li> </ul>

## BACKGROUND

CD34 is a 100-125 kDa highly glycosylated member of the CD34 family of molecules. In canine, mature CD34 is a 356 amino acid (aa) type I transmembrane protein that contains a 261 aa extracellular domain (ECD). Although originally identified on the surface of hematopoietic stem cells and vascular endothelial progenitors, it is now known to be expressed by highly divergent cell types such as telocytes/ICLC (cardiac support cells), cytotoxic NK lineage restricted progenitors, muscle satellite cells, corneal keratocytes (fibroblasts) and dendritic cell progenitors (with the exception of pre-conventional DCs). Little is known about CD34 ligands, save for L-Selectin. Canine CD34 ECD shares 60% and 56% aa sequence identity with human and mouse CD34 ECD, respectively.