

#### DESCRIPTION

<b>Species Reactivity</b>	Canine/Equine
<b>Specificity</b>	Detects canine and equine CD44 in Flow Cytometry.
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 69-S5
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Canine marrow cells Accession # Q28284
<b>Conjugate</b>	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
<b>Formulation</b>	Supplied 0.2 mg/mL 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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Flow Cytometry</b>	0.25-1 µg/10 <sup>6</sup> cells	Canine blood-derived monocytes and equine peripheral blood mononuclear cells (PBMCs)

#### 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

Canine CD44 is a ubiquitously expressed 85-90 kDa transmembrane glycoprotein that binds to hyaluronan and is involved in matrix adhesion, lymphocyte activation, and lymph node homing. The CD44 protein is expressed as a family of molecular isoforms generated by alternate splicing and variable posttranslational modification. Within the N-terminal invariant portion of the ECD (aa 14-191), canine CD44 shares 90%, 83%, and 82% identity with human, mouse, and rat CD44, respectively.

#### PRODUCT SPECIFIC NOTICES

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