

DESCRIPTION

Species Reactivity	Canine/Equine
Specificity	Detects canine and equine CD44 in Flow Cytometry.
Source	Monoclonal Mouse IgG ₁ Clone # 69-S5
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Canine marrow cells Accession # Q28284
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
Formulation	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.

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

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage **Protect from light. Do not freeze.**

- 12 months from date of receipt, 2 to 8 °C as supplied.

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.

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