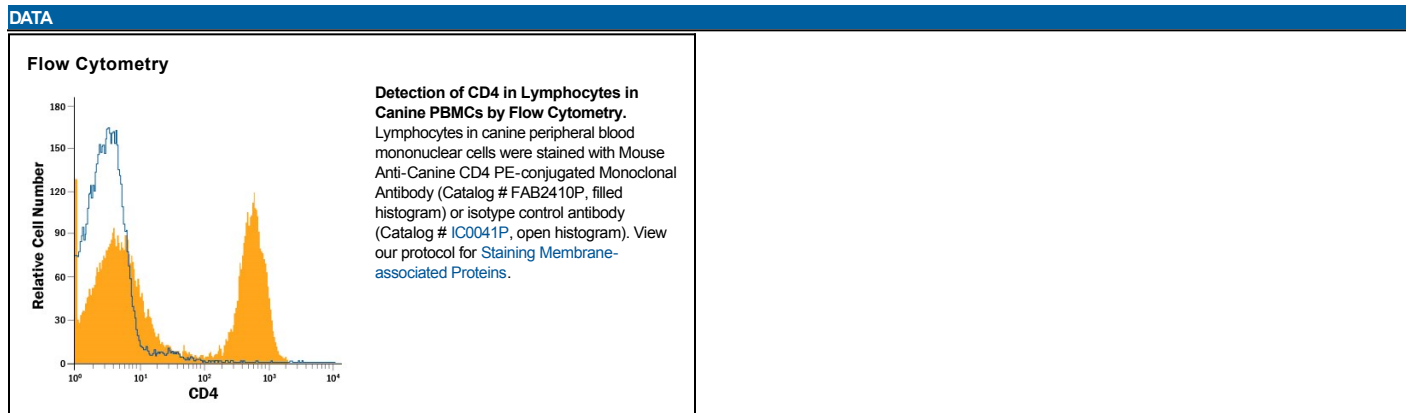


DESCRIPTION	
Species Reactivity	Canine
Specificity	Detects canine CD4 in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant human CD4, recombinant mouse CD4, and recombinant feline CD4 is observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 296712
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant canine CD4 Val25-Lys401 Accession # P33705
Conjugate	Phycoerythrin Excitation Wavelength: 488 nm Emission Wavelength: 565-605 nm
Formulation	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. <i>General Protocols</i> are available in the <i>Technical Information</i> section on our website.		
	Recommended Concentration	Sample
Flow Cytometry	10 μ L/10 ⁶ cells	See Below



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. <ul style="list-style-type: none"> ● 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

CD4 is a 56-58 kDa type I transmembrane glycoprotein belonging to the immunoglobulin superfamily. It is expressed on a variety of cell types including T helper cells, follicular helper cells, neurons, T regulatory cells, microglia, and monocytes. CD4 functions in collaboration with the T cell receptor in the recognition of peptide antigens that are presented by class II major histocompatibility complexes. CD4 also has been shown to be a coreceptor of HIV entry and specifically binds gp120, the external envelope glycoprotein of HIV. Over aa 25-401, canine CD4 shares 56% amino acid identity with human CD4.