

DESCRIPTION

Species Reactivity	Canine
Specificity	Detects canine CD8 α in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant CD8 from human, mouse, cotton rat, cat, or guinea pig is observed.
Source	Monoclonal Mouse IgG ₁ Clone # 569126
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant canine CD8 α Ser22-Glu186 Accession # P33706
Formulation	Lyophilized from a 0.2 μ m filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 μ m filtered solution in PBS.

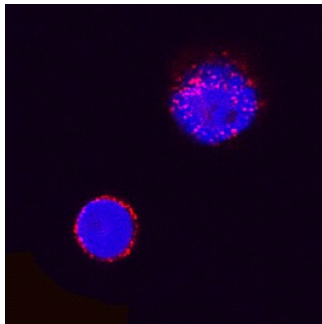
APPLICATIONS

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
Immunocytochemistry	8-25 μ g/mL	See Below

DATA

Immunocytochemistry



CD8 α in Canine PBMCs. CD8 α was detected in immersion fixed canine peripheral blood mononuclear cells (PBMCs) using Mouse Anti-Canine CD8 α alpha Monoclonal Antibody (Catalog # MAB6709) at 25 μ g/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to cell membrane. View our protocol for [Fluorescent ICC Staining of Non-adherent Cells](#).

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
Shipping	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
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

CD8 is a dimeric complex made up of two Ig superfamily members. The CD8 α chain is a 34 kDa type I transmembrane glycoprotein that is disulfide-linked either to itself forming CD8 $\alpha\alpha$, or to an unrelated 30-35 kDa CD8 β chain, forming CD8 $\alpha\beta$. CD8 α contains one V-type Ig-like domain in its extracellular region (ECD) that binds to class I MHC molecules. CD8 $\alpha\beta$ is a TCR coreceptor, while CD8 $\alpha\alpha$ promotes T cell survival and differentiation. Within the ECD, canine CD8 α shares 63%, 45%, 43%, 68%, and 54% amino acid identity with human, mouse, rat, feline, and porcine CD8 α , respectively.