

DESCRIPTION

Species Reactivity	Canine
Specificity	Detects canine CD8α 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 CD8α Ser22-Glu186 Accession # P33706
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *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.

Immunocytochemistry Optimal dilution of this antibody should be experimentally determined.

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

CD8 is a dimeric complex made up of two Ig superfamily members. The CD8α chain is a 34 kDa type I transmembrane glycoprotein that is disulfide-linked either to itself forming CD8αα, or to an unrelated 30-35 kDa CD8β chain, forming CD8αβ. CD8α contains one V-type Ig-like domain in its extracellular region (ECD) that binds to class I MHC molecules. CD8αβ is a TCR coreceptor, while CD8αα promotes T cell survival and differentiation. Within the ECD, canine CD8α shares 63%, 45%, 43%, 68%, and 54% amino acid identity with human, mouse, rat, feline, and porcine CD8α, respectively.

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