

#### DESCRIPTION

<b>Species Reactivity</b>	Feline
<b>Specificity</b>	Detects feline CD8 $\alpha$ in direct ELISAs and Western blots. In direct ELISAs and Western blots, approximately 25% cross-reactivity with recombinant mouse CD8 $\alpha$ is observed, approximately 5% cross-reactivity with recombinant canine CD8 $\alpha$ is observed, and less than 1% cross-reactivity with recombinant human CD8 $\alpha$ is observed.
<b>Source</b>	Polyclonal Goat IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant feline CD8 $\alpha$ Ala22-Tyr188 Accession # P41688
<b>Formulation</b>	Lyophilized from a 0.2 $\mu$ m filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 $\mu$ m filtered solution in PBS.

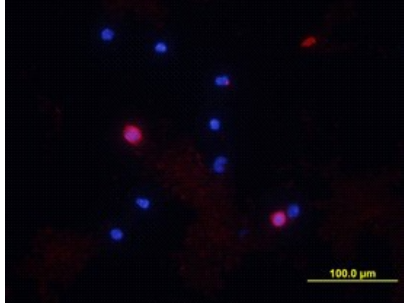
#### APPLICATIONS

**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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	0.1 $\mu$ g/mL	Recombinant Feline CD8 $\alpha$
<b>Immunocytochemistry</b>	5-15 $\mu$ g/mL	See Below

#### DATA

**Immunocytochemistry**



**CD8 $\alpha$  in Feline PBMCs.** CD8 $\alpha$  was detected in immersion fixed feline peripheral blood mononuclear cells (PBMCs) using Goat Anti-Feline CD8 $\alpha$  Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2598) at 10  $\mu$ g/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Goat IgG Secondary Antibody (red; Catalog # NL001) and counterstained with DAPI (blue). View our protocol for [Fluorescent ICC Staining of Non-adherent Cells](#).

#### PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.2 mg/mL in sterile PBS.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

#### BACKGROUND

CD8 is a dimeric complex made up of two Ig superfamily members. The CD8 $\alpha$  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 $\beta$  chain, forming CD8 $\alpha\beta$ . CD8 $\alpha$  contains one V-type Ig-like domain in its extracellular region that binds to class I MHC molecules. CD8 $\alpha\beta$  is a TCR coreceptor, while CD8 $\alpha\alpha$  promotes T cell survival and differentiation. Feline CD8 $\alpha$  extracellular region shares 58%, 47%, 51%, and 69% amino acid sequence identity with human, mouse, porcine, and canine CD8 $\alpha$  extracellular regions, respectively.