

## DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Feline                                                                                                                                                                                                                                                                      |
| <b>Specificity</b>        | Detects feline CD8α in direct ELISAs and Western blots. In direct ELISAs and Western blots, approximately 25% cross-reactivity with recombinant mouse CD8α is observed, approximately 5% cross-reactivity with recombinant canine CD8α is observed, a                       |
| <b>Source</b>             | Polyclonal Goat IgG                                                                                                                                                                                                                                                         |
| <b>Purification</b>       | Antigen Affinity-purified                                                                                                                                                                                                                                                   |
| <b>Immunogen</b>          | Mouse myeloma cell line NS0-derived recombinant feline CD8α<br>Ala22-Tyr188<br>Accession # P41688                                                                                                                                                                           |
| <b>Conjugate</b>          | Alexa Fluor 647<br>Excitation Wavelength: 650 nm<br>Emission Wavelength: 668 nm                                                                                                                                                                                             |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*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.

|                            |                                                                        |
|----------------------------|------------------------------------------------------------------------|
| <b>Western Blot</b>        | Optimal dilution of this antibody should be experimentally determined. |
| <b>Immunocytochemistry</b> | Optimal dilution of this antibody should be experimentally determined. |

## PREPARATION AND STORAGE

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | 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 that binds to class I MHC molecules. CD8αβ is a TCR coreceptor, while CD8αα promotes T cell survival and differentiation. Feline CD8α extracellular region shares 58%, 47%, 51%, and 69% amino acid sequence identity with human, mouse, porcine, and canine CD8α extracellular regions, respectively.

## PRODUCT SPECIFIC NOTICES

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