



## Anti-CD8A monoclonal antibody, clone YCATE55.9 [R-PE] (CABT-45241RD)

This product is for research use only and is not intended for diagnostic use.

### PRODUCT INFORMATION

<b>Product Overview</b>	Rat anti Dog CD8 antibody, clone YCATE55.9 was clustered as Canine CD8 in the First Canine Leukocyte Antigen Workshop. YCATE55.9 reacts with a rat cell line transfected with cDNA for canine CD8 $\alpha$ and blocks MHC class I dependant T-cell responses in vitro and in vivo. Rat anti Dog CD8, clone YCATE55.9 has been shown to deplete circulating CD8+ T cells when administered to dogs in vivo. Reduced levels of circulating CD8+ T cells has been associated with decreased survival times for dogs with osteosarcoma. Flow Cytometry Use 10ul of the suggested working dilution to label 1 x 10 <sup>6</sup> cells in 100ul.
<b>Specificity</b>	CD8A
<b>Immunogen</b>	Canine CD8 alpha chimaeric human IgG1 Fc fusion protein.
<b>Isotype</b>	IgG1
<b>Source/Host</b>	Rat
<b>Species Reactivity</b>	Dog
<b>Clone</b>	YCATE55.9
<b>Conjugate</b>	PE
<b>Applications</b>	FC
<b>Format</b>	Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilised
<b>Size</b>	100 tests
<b>Preservative</b>	0.09% Sodium Azide
<b>Storage</b>	Prior to reconstitution store at +4°C. Following reconstitution store at +4°C. DO NOT FREEZE.

This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">CD8A CD8a molecule [ Canis lupus familiaris (dog) ]</a>
<b>Official Symbol</b>	CD8A
<b>Synonyms</b>	CD8A; T-cell surface glycoprotein CD8 alpha chain; CD8 antigen, alpha polypeptide (p32);
<b>Entrez Gene ID</b>	<a href="#">403157</a>
<b>Protein Refseq</b>	<a href="#">NP_001002935</a>
<b>UniProt ID</b>	P33706
<b>Chromosome Location</b>	chromosome: 17
<b>Pathway</b>	Adaptive Immune System; Antigen processing and presentation; Cell adhesion molecules (CAMs); Hematopoietic cell lineage; Immune System; Immunoregulatory interactions between a Lymphoid and a non-Lymphoid cell; Primary immunodeficiency; T cell receptor signaling pathway;
<b>Function</b>	protein homodimerization activity;