



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

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| Product Overview | 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 α 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 ⁶ cells in 100ul. |
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| Specificity | CD8A |
| Immunogen | Canine CD8 alpha chimaeric human IgG1 Fc fusion protein. |
| Isotype | IgG1 |
| Source/Host | Rat |
| Species Reactivity | Dog |
| Clone | YCATE55.9 |
| Conjugate | PE |
| Applications | FC |
| Format | Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilised |
| Size | 100 tests |
| Preservative | 0.09% Sodium Azide |
| Storage | 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

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| Gene Name | CD8A CD8a molecule [Canis lupus familiaris (dog)] |
| Official Symbol | CD8A |
| Synonyms | CD8A; T-cell surface glycoprotein CD8 alpha chain; CD8 antigen, alpha polypeptide (p32); |
| Entrez Gene ID | 403157 |
| Protein Refseq | NP_001002935 |
| UniProt ID | P33706 |
| Chromosome Location | chromosome: 17 |
| Pathway | 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; |
| Function | protein homodimerization activity; |