

## Product datasheet for TA386526

### IL2ra Mouse Monoclonal Antibody [Clone ID: 20000]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	20000
Applications:	FC
Reactivity:	Mouse
Host:	Mouse
Isotype:	IgG1, kappa
Clonality:	Monoclonal
Immunogen:	The original version of this antibody was raised to recognize mouse CD25.
Specificity:	<p>2E4 recognizes mouse CD25. This epitope is distinct from the IL-2 binding site and does not block binding of IL-2 to CD25. This antibody binds the same or overlapping epitope as 7D4 (Ab02216) but different than Ab01107. Murine CD25 is a 55 kDa interleukin-2 receptor alpha chain (IL-2R alpha). CD25 is expressed by early progenitors of the T and B lineage as well as by activated mature T and B lymphocytes. By itself, CD25 binds IL-2 only with low affinity. However, CD25 associates with CD122 (IL-2 receptor beta chain) and CD132 (common gamma chain) to form the high affinity IL-2 receptor.</p> <p>2E4 is a non-IL-2 blocking anti-CD25 antibody. The variable fragment (Fv) of this antibody conjugated to a 38-kDa portion of Pseudomonas exotoxin A exhibited exceptional ability to induce tumor rejection and lasting antitumor immunity in mice making it a promising candidate in the immunotherapy research and development (Onda et al., 2019; pmid: 30760587). This 2E4 Fv-based CD25-specific recombinant immunotoxin (RIT) was injected into three different mouse tumor models and brought about complete regressions of the majority of them leading, in many cases, to immunity against tumors' reinjections and cross-tumor type immunity (Onda et al., 2019; pmid: 30760587). Finally, it was demonstrated that this immunotoxin (RIT) caused significant depletion of regulatory T cells (Tregs) in the tumor environment but, importantly, not in the spleen; at the same time, the number of effector, cytotoxic CD8 cells in the tumor increased what would suggest the possible antitumor mechanism of this immunotoxin (Onda et al., 2019; pmid: 30760587). Additionally, 2E4 can be used in flow cytometric analyses; for instance, it has been used to perform phenotyping of lymphocytes as a part of a wider panel of antibodies (Alexander et al., 2008; pmid: 18824594).</p>
Formulation:	PBS with 0.02% Proclin 300.



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<b>Concentration:</b>	lot specific
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Please store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C. Avoid freeze and thaw cycles.
<b>Stability:</b>	3 years from dispatch.
<b>Gene Name:</b>	interleukin 2 receptor, alpha chain
<b>Database Link:</b>	<a href="#">Entrez Gene 16184 Mouse P01590</a>
<b>Synonyms:</b>	CD25; IDDM10; IL-2-RA; IL2-RA; IL2R; p55; TCGFR