

Product datasheet for AM08036LE-N

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OriGene Technologies, Inc.

Il2ra Rat Monoclonal Antibody [Clone ID: 3C7]

Product data:

Product Type: Primary Antibodies

Clone Name: 3C7

Applications: FC, FN, IP

Recommended Dilution: Flow Cytometry: Identification and enumeration of CD25+ (Ref.1-4)

Immunoprecipitation. (Ref.1,2,8,10)

Functional Assay:

Inhibition of IL-2 or mitogen-induced T cell proliferation. (Ref.13)

In vitro blocking of IL-2 binding. (Ref.2,12)

Reactivity: Mouse

Host: Rat IgG2b

Clonality: Monoclonal

Specificity: This antibody is specific to Low affinity alpha chain IL-2 Receptor (IL-2Ra), Mr 55 kDa.

The 3C7 monoclonal antibody reacts with an epitope of CD25 which is distinct from that

recognized by clone 7D4. (Ref.2,11,12)

Clone 3C7, used in combination with 7D4 in culture, results in higher levels of inhibition of

proliferation driven by IL-2 and generation of alloreactive CTL than either of these

monoclonal antibodies alone. (Ref.2,13)

Formulation: PBS containing no preservatives.

State: Low Endotoxin

State: Liquid purified Ig fraction.

Concentration: lot specific

Conjugation: Unconjugated

Storage: Store the antibody undiluted (in aliquots) at -20°C.

Avoid repeated freezing and thawing.

Stability: Shelf life: one year from despatch.

Gene Name: interleukin 2 receptor, alpha chain

Database Link: Entrez Gene 16184 Mouse

P01590





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Background:

The IL-2 receptor (IL-2R) exists in three alternative forms made up from the individual components of CD25, CD122, and CD132. CD25 represents the low affinity alpha chain of the IL-2R, a type I transmembrane glycoprotein containing two CCP domains. It is rich in O-linked carbohydrates and has a short cytoplasmic tail. (Ref.14) CD25 is expressed on activated T cells, B cells, NK cells and monocytes of all mouse strains tested. (Ref.2,3,15) Expression of CD25 on activated T lymphocytes is transitory and endogenously regulated. (Ref.4) CD25 is expressed on precursor B cells in bone marrow. Its expression is initiated by functional rearrangement and expression of IgM heavy chain genes and is down-regulated when immature B cells mature and express IgD. (Ref.5) It is expressed at a higher level on CD4+CD8+ thymocytes. (Ref.5,6) It is also expressed on cultured epidermal Langerhans cells. (Ref.7) The biochemical features of murine CD25 have been characterized in detail. (Ref.8-10)

Synonyms:

Interleukin-2 receptor alpha chain, IL-2 receptor alpha subunit, IL-2-RA, IL2-RA, p55, TAC antigen