The high affinity IL-2 receptor (IL-2R) is a trimeric complex composed of three polypeptide chains, \( \alpha \) (IL-2R\( \alpha \)), Tac, p55, or CD25), \( \beta \) (IL-2R\( \beta \)), p75, or CD122), and \( \gamma \) (IL-2R\( \gamma \) or p64). T lymphocytes express an intermediate-affinity IL-2 receptor that comprises \( \beta \gamma \) or \( \alpha \gamma \) chain complex. IL-2R\( \beta \) and IL-2R\( \gamma \) chains are involved in IL-2-mediated cellular signaling (1 – 3).

The CD25 molecule (known as Tac antigen and interleukin-2 receptor \( \alpha \) IL-2R\( \alpha \)) is highly expressed on regulatory CD4-positive T lymphocytes and undetected on resting CD8 positive lymphocytes. However, all activated T lymphocytes express the CD25 protein. A subset of B lymphocytes (CD20 positive) expresses CD25 antigen. Granulocytes, monocytes, NK cells, platelets and erythrocytes do not express CD25 (4).

Positive) expresses CD25 antigen. Activated T lymphocytes express the CD25 molecule (known as Tac antigen and interleukin-2 receptor \( \alpha \) IL-2R\( \alpha \)) and the IL-2R\( \gamma \) chain is involved in IL-2-mediated cellular signaling (1 – 3).

The CD25 molecule (known as Tac antigen and interleukin-2 receptor \( \alpha \) IL-2R\( \alpha \)) is highly expressed on regulatory CD4-positive T lymphocytes and undetected on resting CD8 positive lymphocytes. However, all activated T lymphocytes express the CD25 protein. A subset of B lymphocytes (CD20 positive) expresses CD25 antigen. Granulocytes, monocytes, NK cells, platelets and erythrocytes do not express CD25 (4).

Never pipet by mouth and avoid contact of samples with skin and mucous membranes.

Avoid microbial contamination of reagents or incorrect results might occur.

Use good laboratory practices when handling this reagent.

This reagent is stable up to the expiration date when stored at 2 – 8°C. Do not freeze.

No reconstitution is necessary. This reagent is stable up to the expiration date when stored at 2 – 8°C. Do not freeze.

This reagent contains 0.1% sodium azide. Sodium azide under acid conditions yields hydrazoic acid, an extremely toxic compound. Azide compounds should be flushed with running water while being discarded. These precautions are recommended to avoid deposits in metal piping in which explosive conditions can develop. If skin or eye contact occurs, wash excessively with water.

Specimens, samples and all material coming in contact with them should be considered potentially infectious and disposed of with proper precautions.

Do not use antibody beyond the expiration date on the label.

Do not expose reagents to strong light or heat and avoid microbial contamination of reagents or incorrect results might occur.

Use good laboratory practices when handling this reagent.

**SPECIFICITY**

The high affinity IL-2 receptor (IL-2R) is a trimeric complex composed of three polypeptide chains, \( \alpha \) (IL-2R\( \alpha \)), Tac, p55, or CD25), \( \beta \) (IL-2R\( \beta \)), p75, or CD122), and \( \gamma \) (IL-2R\( \gamma \) or p64). T lymphocytes express an intermediate-affinity IL-2 receptor that comprises \( \beta \gamma \) or \( \alpha \gamma \) chain complex. IL-2R\( \beta \) and IL-2R\( \gamma \) chains are involved in IL-2-mediated cellular signaling (1 – 3).

**STATEMENTS OF WARNING**

1. This reagent contains 0.1% sodium azide. Sodium azide under acid conditions yields hydrazoic acid, an extremely toxic compound. Azide compounds should be flushed with running water while being discarded. These precautions are recommended to avoid deposits in metal piping in which explosive conditions can develop. If skin or eye contact occurs, wash excessively with water.

2. Specimens, samples and all material coming in contact with them should be considered potentially infectious and disposed of with proper precautions.

3. Never pipet by mouth and avoid contact of samples with skin and mucous membranes.

4. Do not use antibody beyond the expiration date on the label.

5. Do not expose reagents to strong light during storage or incubation.

6. Avoid microbial contamination of reagents or incorrect results might occur.

7. Use good laboratory practices when handling this reagent.

**STORAGE CONDITIONS AND STABILITY**

This reagent is stable up to the expiration date when stored at 2 – 8°C. Do not freeze.

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Do not use antibody beyond the expiration date on the label.

Do not expose reagents to strong light during storage or incubation.

Avoid microbial contamination of reagents or incorrect results might occur.

Use good laboratory practices when handling this reagent.

**SELECTED RESEARCH REFERENCES**


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