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**Anti-CD25-SAP human
TARGETED TOXIN**

*[antibody to human CD25 (Tac, IL-2 receptor)]-saporin
targets human interleukin-2 (IL-2) receptor*

Catalog Number: IT-24
Quantity: 25 micrograms, 100 micrograms, 250 micrograms
Format: PBS (0.14 M Sodium Chloride; 0.003 M Potassium Chloride; 0.002 M Potassium Phosphate; 0.01 M Sodium Phosphate; pH 7.4), no preservative. Sterile-filtered.
Host: Mouse

Background:

Targeted toxins are powerful and specific lesioning agents used in the technique known as Molecular Surgery. The ribosome-inactivating protein, saporin (from the seeds of the plant, *Saponaria officinalis*) is bound to a targeting agent (anything that is recognized on the cell surface and internalized). The targeted toxin is administered to the cells (*in vitro* or *in vivo*). The targeting agent seeks out and binds to its target on the cell surface. The conjugate is internalized, saporin breaks away from the targeting agent, and inactivates the ribosomes which causes protein inhibition and, ultimately, cell death. Cells which do not have the cell surface marker are not affected.

Specificity and Preparation:

This targeted toxin (molecular weight 210 kDa) recognizes cells that express the human Interleukin-2 (IL-2) receptor. Anti-CD25-SAP is a chemical conjugate of a monoclonal antibody to Human CD25 (Tac, IL-2 receptor) and the ribosome-inactivating protein, saporin. This product is routinely tested using cytotoxicity assay.

Usage and Storage:

Anti-CD25-SAP specifically eliminates cells that express the human Interleukin-2 (IL-2) receptor. There may be lot-to-lot variation in material; working dilutions must be determined by end user.

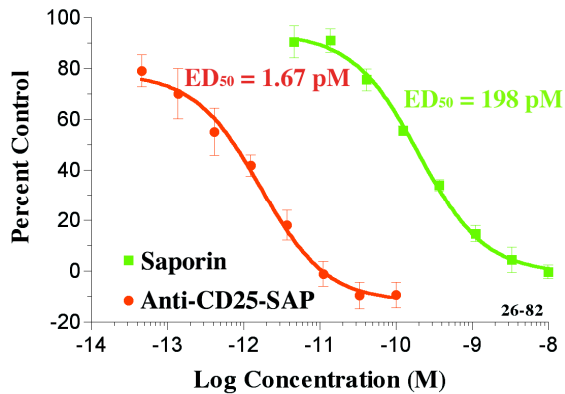
Centrifuge material at low speed in microfuge to ensure all of solution is at bottom of tube. Vortex gently. The material should be stored at -20°C in undiluted aliquots. Material should be aliquoted to a convenient volume and quantity to avoid repeated freezing and thawing that can damage the protein content. Under these conditions, the material has a very stable shelf-life. Thawing should be done at room temperature or on ice. The thawed solution should remain on ice until use.

Do not use a reducing agent (such as dithiothreitol, beta-mercaptoethanol or ascorbic acid) with this material. It will inactivate the toxin.

This material is an extremely potent cytotoxin. Handling should be done by experienced personnel. Gloves and safety glasses are required when handling this product. Care in disposal is mandatory; autoclaving or exposure to 0.2 M sodium hydroxide will inactivate the material. All labware that comes into contact with this material should be likewise treated.

Available Control(s): Saporin, Antibody to Human CD25, Mouse IgG-SAP

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Cytotoxicity of anti-CD25-SAP and of non-conjugated saporin to SR cells in culture. Cells were plated at 5000 cells per well and allowed to acclimate. Samples were added at the indicated concentrations and cells were incubated for 72 hours. MTS (Promega) was added and, after color development, Plates were read with a Molecular Dynamics SpectraMax 340. ED50's of each compound are color-coded. Data analysis is by PRISM (GraphPad).

References:

1. Lappi DA (2002) Featured Products: Anti-Tac-SAP. *Targeting Trends* 3(3):7.

Safety:

Good laboratory technique must be employed for safe handling of this product.

This requires observation of the following practices:

1. Wear appropriate laboratory attire, including lab coat, gloves and safety glasses.
2. Do not pipet by mouth, inhale, ingest or allow product to come into contact with open wounds. Wash thoroughly any part of the body which comes into contact with the product.
3. Avoid accidental autoinjection by exercising extreme care when handling in conjunction with any injection device.
4. This product is intended for research use by qualified personnel only. It is not intended for use in humans or as a diagnostic agent. Advanced Targeting Systems is not liable for any damages resulting from the misuse or handling of this product.