Advanced Targeting Systems

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Anti-Notch3-SAP (7G7-B10-H7)

TARGETED SAP CONJUGATE

a tool for eliminating cells that express the notch3 receptor; targeted via the mouse monoclonal antibody to human notch3 (clone 7G7-B10-H7), eliminated via saporin

Catalog Number: BETA-054
Quantity: 25 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
Clone: 7G7-B10-H7
Immunogen: Human notch3 (partial, amino acids 807-884)

Background: Targeted SAP conjugates 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 conjugate is administered to 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 that do not have the cell surface marker are not affected.
Notch3 is a transmembrane protein belonging to the Notch superfamily, characterized by multiple extracellular EGF-like repeats and conserved Notch domains. The Notch signaling pathway is a highly conserved mechanism of cell-to-cell communication that governs a range of developmental processes, including lateral inhibition during embryogenesis. Notch3 has drawn attention as a potential therapeutic target, as it is overexpressed in several cancers and may contribute to tumor progression.

Specificity & Preparation: This targeted toxin recognizes cells that express the Notch3 receptor in human. Anti-Notch3-SAP is a direct conjugate between mouse monoclonal antibody to human Notch3 (clone 7G7-B10-H7) and the ribosome-inactivating protein, saporin.

Usage: Anti-Notch3-SAP eliminates cells that express the Notch3 receptor in human. All other cells are left untouched. **There may be lot-to-lot variation in material; working dilutions must be determined by the end user. End users must assess the proper working dilution before beginning a full experimental protocol.**

Storage: Gently spin down material 5-10 seconds in a microfuge before use. Store the material in undiluted aliquots at –20°C. 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.

For research use only, not for use as a diagnostic.

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Control(s): Mouse IgG-SAP

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.