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**Biotin-labeled Antibody to Saporin, Affinity-Purified  
GOAT POLYCLONAL**

**Catalog Number:** BT-15AP  
**Quantity:** 50 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.  
**Host:** Goat  
**Isotype:** IgG  
**Immunogen:** Saporin

**Background:**

Saporin is obtained from the seeds of the Soapwort plant (*Saponaria officinalis*), a plant that grows wild in Britain and other parts of Europe. Saporin is a plant enzyme with N-glycosidase activity that depurinates a specific nucleotide in the ribosomal RNA 28S, thus irreversibly blocking protein synthesis. It belongs to the well-characterized family of ribosome-inactivating proteins (RIPs). There are two types of RIPs: type I, which are much less cytotoxic due to the lack of the B chain and type II, which are distinguished from type I RIPs by the presence of the B chain and their ability to enter cells on their own. However, type I RIPs can still be internalized by fluid-phase endocytosis. In the case of saporin, it was reported that saporin first binds to the alpha2-macroglobulin receptor on human cells and is then internalized to the cytosol. Upon internalization, the ribosomes are inactivated, resulting in cell death.

**Specificity and Preparation:**

This antibody recognizes saporin. Saporin was used as the immunogen. The antibody was affinity-purified against saporin attached to a CnBr-Sepharose support column. It has been conjugated to biotin via an amide bond. The antibody is routinely tested by Western blot.

**Usage and Storage:**

Applications include immunoblotting (ATS in-house; 1:1,000). Store the antibody at 4°C for one month or -20°C in undiluted aliquots for one year. Avoid repeated freezing and thawing. Gently spin down material before use; 5-10 seconds in a microfuge should be adequate.

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