

**Antibody to Saporin, Affinity-Purified
RABBIT POLYCLONAL**

Catalog Number: AB-41AP
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: Rabbit
Isotype: IgG
Immunogen: Saporin

Background:

Saporin is obtained from the seeds of the Soapwort plant (*Saponaria officinalis*), a plant that grows wildy 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. The antibody was first protein-A-purified followed by affinity-purification against saporin attached to a CnBr-Sepharose support column. This antibody is routinely tested by Western Blot.

Usage and Storage:

Applications include immunoblotting (Western Blot 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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