ADVANCED TARGETING SYSTEMS

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# Alexa488-labeled Antibody to Saporin, Affinity-Purified
GOAT POLYCLONAL

**Catalog Number:** FL-15AP
**Quantity:** 50 micrograms
**Format:** 50% PBS (0.14 M Sodium Chloride; 0.003 M Potassium Chloride; 0.002 M Potassium Phosphate; 0.01 M Sodium Phosphate; pH 7.4), 50% glycerol; 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 wildly 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. 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 the fluorescent dye Alexa488. The antibody is routinely tested by Western blot.

**Usage and Storage:**
Applications include immunoblotting (ATS in-house; 1:1,000).
Gently spin down material before use; 5-10 seconds in a microfuge should be adequate. The material can be handled safely using normal laboratory precautions. See Lot Number for lot-specific storage instructions.

**To view protocol(s) for this and other products please visit: www.ATSbio.com/support/protocols**