

AP09657PU-N**Polyclonal Antibody to 2-Amino Benzimidazole Sulphone - Ig Fraction****Alternate names:** 2-Amino-5-benzimidazole**Quantity:** 0.1 ml**Concentration:** 8.09 mg/ml (U.V.abs @ 280nm)

Background: Anthelmintics or anti-helminthics are a class of drugs that are effective against a range of intestinal parasitic worms (helminths). Parasitic helminths must maintain an appropriate feeding site. Nematodes and trematodes must actively ingest and move food through their digestive tracts to maintain an appropriate energy state; these together with reproductive processes require a well defined and developed neuromuscular coordination. Anthelmintic treatment is a multi-targeting system designed to interfere with the integrity of parasite cells. The pharmacologic basis of the treatment for helminths involves the targeting of neuromuscular coordination, or protective mechanisms against host immunity, which lead to starvation, paralysis, and expulsion of the parasite. The benzimidazole class of drugs were introduced in 1961 and interfere with the parasite's ATP pathway on a cellular level. They bind to a specific building block called b-tubulin and prevent its incorporation into certain cellular structures called microtubules, which are essential for energy metabolism.

Host / Isotype: Sheep / IgG**Immunogen:** 2-Amino-5-(propylthio) benzimidazole -BTG**Format:** **State:** Liquid Ig fraction prepared by Caprylic Acid and Ammonium Sulphate precipitation procedures**Buffer System:** 20mM Phosphate, 150mM Sodium Chloride, pH 7.2**Preservatives:** 0.09% Sodium Azide**Applications:** **ELISA:** 1.25 µg/ml.

10 ng/ml Albendazole Sulphone produces 61% inhibition in a competitive ELISA, employing 2- amino-Benzimidazole Sulphone polyclonal antibody. The antibody is suitable for the development of immunoassays or immunoaffinity purification columns. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: This antibody reacts to 2-Amino Benzimidazole Sulphone.

Storage: Upon receipt, store undiluted (in aliquots) at -20°C.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.