

## Product datasheet for **AP09684PU-L**

### Clenbuterol Sheep Polyclonal Antibody

#### Product data:

|                       |  |
|-----------------------|--|
| Product Type:         | Primary Antibodies   |
| Applications:         | ELISA  |
| Recommended Dilution: | ELISA: 10µg/ml.  |
| Host:                 | Sheep  |
| Isotype:              | IgG  |
| Clonality:            | Polyclonal   |
| Immunogen:            | Clenbuterol (N)-HSA  |
| Specificity:          | This antibody reacts to Clenbuterol.<br><b>Cross-Reactivity:</b><br>Clenbuterol 100%<br>Mabuterol 114%<br>Bromobuterol 96%<br>Methyl-Clenbuterol 53%<br>Mapenterol 49%<br>Salbutamol 3.8%<br>Terbutaline 1.6%<br>Cimaterol 1.0%<br>Pirbuterol 0.9%<br>Ractopamine 0.2%<br>Feneterol 0.2% |
| Formulation:          | 20mM Phosphate, 150mM Sodium Chloride, pH 7.2 containing 0.09% Sodium Azide as preservative<br>State: Ig Fraction<br>State: Liquid Ig fraction prepared by Caprylic Acid and Ammonium Sulphate precipitation procedures  |
| Concentration:        | lot specific   |
| Conjugation:          | Unconjugated   |
| Storage:              | Store the antibody at -20°C.<br>Avoid repeated freezing and thawing.   |
| Stability:            | Shelf life: one year from despatch.  |



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**Background:**

Clenbuterol belongs to the group of agonists. In livestock production clenbuterol improves the meat/fat ratio in fattened animals or accelerate the growth. Up to now agonists have not been authorized as adjuvants for fattening. In addition to its lipolytic and anabolic effect, clenbuterol has a relaxing effect on non-striated musculature on which is based its therapeutic use as an antiasthmatic and a tocolytic agent. When employed as a fattening adjuvant, as compared with the therapeutic use, clenbuterol is administered in a 5 to 10 times higher dose. Therefore, it is possible that clenbuterol residues may lead to a risk for consumers after illegal administration. Using the clenbuterol monoclonal antibody, it is possible to detect clenbuterol and other agonists in urine, muscle and liver both rapidly and with accuracy.

Clenbuterol is a long acting beta 2 adrenergic agonist. Like other beta 2 agonists, clenbuterol is believed to act by stimulating production of cyclic AMP through the activation of adenylyl cyclase. By definition, Beta 2 agonists have more smooth muscle relaxation activity (bronchial, vascular and uterine smooth muscle) versus its cardiac effects (Beta 1).

**Synonyms:**

1-(4-amino-3, 5-dichlorophenyl)-2-(tert-butylamino)ethanol, Clenbuterolum, Contraspasmin