bs-4532R **[Primary Antibody]**

Clenbuterol Rabbit pAb

www.bioss.com.cn
sales@bioss.com.cn
techsupport@bioss.com.cn
400-901-9800

DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

Target: Clenbuterol

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

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 monocalantibody, 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 adenyl cyclase. By definition, Beta 2 agonists have more smooth muscle relaxation activity (bronchial, vascular and uterine smooth muscle) versus its cardiac effects (Beta 1).

Applications: **ELISA** (1:5000-10000)

Reactivity: Species independent

Predicted MW.: 0.31365 kDa

SELECTED CITATIONS

- **[IF=5.705]** Ji R et al. A voltammetric immunosensor for clenbuterol based on the use of a MoS2-AuPt nanocomposite. Microchimica Acta,2018 185(4). Other ;Pork. 10.1007/s00604-018-2746-1
- **[IF=2.6]** Wu, Yichuan, et al. "Clenbuterol Assay by Spectral Imaging Surface Plasmon Resonance Biosensor System." Applied Biochemistry and Biotechnology(2015): 1-11. Other ;. 26319570
- **[IF=2.31]** Yao, Manwen, et al. "Spectral surface plasmon resonance imaging for the detection of clenbuterol via three-dimensional immobilization of bio-probes."Analytical Biochemistry (2015). Other ;. 25637304