

Mouse Anti-Ractopamine Monoclonal Antibody

Mouse, Monoclonal (Ractopamine)

Cat. No. DMAB8607

Lot. No. (See product label)

PRODUCT INFORMATION

Product Overview: Mouse monoclonal antibody to ractopamine.

Immunogen: Rac-OVA.

Clone: Sbd2

Host animal: Mouse

Isotype: IgG

Species reactivity: KSHV

Form: Ascitic fluid containing 0.03% sodium azide.

Applications: ELISA: Propose dilution 1:10000. Not yet tested in other applications. Determining optimal working dilutions by titration test.

Storage: Store at 4°C, for long term storage, store at -20°C.

REFERENCES

1. Knaus, U. G. Science 1991. 254: 1512-1515.
2. Diekmann, D. Nature 1991. 351: 400-402.

ANTIGEN BACKGROUND

Introduction: Ractopamine is a phenylethanolamine β -adrenoceptor agonist that is used for the improvement of weight gain, carcass leanness and feed efficiency in pigs. It has been known for years that ractopamine enhances growth in meat animals by repartitioning nutrients. This means that the nutrients that the animal consumes in its feed are shifted away from being stored as fat and are instead used in lean tissue production. This shift occurs as the animal reaches the top of its growth curve and lean tissue production drops off and fat deposition increases. Fat levels also appear to decrease, due to an increase in lipolysis (fat breakdown). Using the ractopamine monoclonal antibody, it is possible to detect ractopamine and other agonists in urine, muscle and liver both rapidly and with accuracy.

Keywords: 4-[3-[2-Hydroxy-2-(4-hydroxyphenyl)-ethyl]aminobutyl]phenol; Ractopamine