



Mouse Anti-4-Nitrofurantoin metabolite 4-CPAHD monoclonal antibody, clone 4NFT (CABT-L2331)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Specificity	4-Nitrofurantoin metabolite 4-CPAHD
Immunogen	4-Nitrofurantoin metabolite 4-CPAHD with carrier protein
Isotype	IgG
Source/Host	Mouse
Species Reactivity	N/A
Clone	4NFT
Purification	Protein A purified
Conjugate	Unconjugated
Applications	ELISA, LFIA
Format	Liquid
Concentration	Lot specific
Size	1 mg
Buffer	PBS
Preservative	None
Storage	-20°C. Avoid Freeze/Thaw Cycles

BACKGROUND

Introduction	Nitrofurantoin belongs to the class of 5-nitrofuran antibiotics and has been widely and effectively used for the prevention and treatment of gastrointestinal infections caused by Escherichia coli and Salmonella spp. in cattle, pigs and poultry. It was also used as a growth promoter in food-producing animals. However, both WHO and the European Union (EU) are unable to assign a maximum residue limit for nitrofurantoin because of the potential carcinogenic effects of its residues on human health. As a consequence, the administration of nitrofurantoin to food-producing animals has been prohibited. Because of the rapid excretion of the nitrofurans and their instability in vitro and in vivo, it is impossible to monitor residues of the parent drug nitrofurantoin directly. Alternatively, 1-aminohydantoin (AHD), the major metabolite of nitrofurantoin, which is stable in tissue, even after long-term storage, is selected to monitor.
Keywords	Macrodantin;5-Nitrofurantoin;Furadantine;Furadonine;