

Mouse anti- Gentamicin monoclonal antibody

Catalog Number: CSB-MA000911I0m



Synonym Names	Cidomycin,GE,GM
Product type	Primary antibodies
Description	Mouse monoclonal to Gentamicin
Clonality	monoclonal
Isotype	IgG1
Purity	>95% by Protein G purified
Conjugate	Non-conjugated
Storage buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Storage	Shipped at 4°C Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze.
Form	Liquid
Raised in	Mouse
Clone Number	000911
Tested applications	ELISA ,Immune colloidal gold, Immunochromatography
Introduction	Gentamicin is an aminoglycoside antibiotic, used to treat many types of bacterial infections, particularly those caused by Gram-negative organisms However, gentamicin is not used for Neisseria gonorrhoeae, Neisseria meningitidis or Legionella pneumophila. Gentamicin is also ototoxic and nephrotoxic, with this toxicity remaining a major problem in clinical use.
References	[1] Elma E. M. G. Loomans, Jim van Wiltenburg, Marjo Koets, and Aart van Amerongen. Neamin as an Immunogen for the Development of a Generic ELISA Detecting Gentamicin, Kanamycin, and Neomycin in Milk. J. Agric. Food Chem., 2003, 51 (3): 587–593. [2] Xiangmei Li, Yiqiang Chen, Shusheng Tang, Jiakang He, Yanhong Shang and Xilong Xiao. Residue Depletion of Gentamicin in Swine Tissues after Intramuscular Administration. Journal of Agricultural and Food Chemistry 2009, 57 (16):7356-7362. [3] Yong Jin, Jin-Wook Jang, Chang-Hoon Han, and Mun-Han Lee. Development of ELISA and Immunochromatographic Assay for the Detection of Gentamicin. J. Agric. Food Chem., 2005, 53 (20):7639–7643 [4] Ph.D. Jahan Ara, Zeev Gans, Ray Sweeney, Benjamin Wolf. Dot-Elisa for the rapid detection of gentamicin in milk. Journal of Clinical Laboratory Analysis. 1995, 9: 320-324. [5] Yoo Jung Kim, Young Ah Kim, Yong Tae Lee, Hye-Sung Lee. Enzyme-linked immunosorbent assays for the insecticide fenitrothion: Influence of hapten conformation and sample matrix on assay performance. Analytica Chimica Acta. 2007, 591: 183-190. [6] R.M Van Es, S.J. Setford, Y.J. Blankwater, D. Meijer. Detection of gentamicin in milk by immunoassay and flow injection analysis with electrochemical measurement. Analytica Chimica Acta. 2001, 429: 37-47. [7] tchai Balakumar, Ankur Rohilla, Arunachalam Thangathirupathi. Gentamicin-induced nephrotoxicity: Do we have a promising therapeutic approach to blunt it?. Pharmacological Research, 2010, 62: 179-186. [8] Muhammad Kashif Saleemi, Muhammad Zargham Khan, Ijaz Javed, Ahrar Khan .Pathological effects of gentamicin administered intramuscularly to day-old broiler chicks. Experimental and Toxicologic Pathology. 2009, 61: 425-432. [9] Majid Tavafi, Hasan Ahmadvand .Effect of rosmarinic acid on inhibition of gentamicin induced nephrotoxicity in rats. Tissue and Cell. 2011, 43: 392-397.