



# Magic™ Mouse Anti-K. pneumoniae Carbapenemase Monoclonal antibody, clone 0731 (CABT-CS984)

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

## PRODUCT INFORMATION

Specificity	Specific for KPC carbapenemase detection. No cross-reactivity with other carbapenemases.
Target	K. pneumoniae Carbapenemase
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	K. pneumoniae
Clone	0731
Purification	Protein A
Conjugate	unconjugated
Applications	ELISA (Cap), LFIA
Format	Liquid
Size	1 mg
Buffer	Phosphate Buffered Saline, pH 7.4
Preservative	0.09% Sodium Azide
Storage	Store at -20°C

## BACKGROUND

**Introduction**

Klebsiella pneumoniae carbapenemase (KPC)-producing Enterobacteriaceae have been reported in many countries, and outbreaks due to KPC-producing organisms have been reported worldwide. KPC is an enzyme that degrades penicillin, cephalosporin, and broad-spectrum  $\beta$ -lactams such as the carbapenems. This type of  $\beta$ -lactamase was discovered relatively recently, first detected in a strain isolated in the United States in 1996. The strain was considered a novel  $\beta$ -lactamase able to degrade carbapenem antibiotics; it was classified as a Bush group 2f, class A, serine- $\beta$ -lactamase and was named KPC.

**Keywords**

Klebsiella pneumoniae Carbapenemase; K. pneumoniae Carbapenemase; KPC; Klebsiella pneumoniae; K. pneumoniae; Carbapenemase