

Rabbit Anti-Mundticin KS precursor antibody

SL10980R

Product Name:	Mundticin KS precursor
Chinese Name:	细菌素Mundticin KS多肽 前体抗体
Alias:	mundticin KS precursor; mundticin L precursor; bacteriocin.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	mundticin KS, mundticin L
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-
	500 (Paraffin sections need antigen repair)
	not yet tested in other applications.
	optimal dilutions/concentrations should be determined by the end user.
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Mundticin KS precursor:
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized
	antibody is stable at room temperature for at least one month and for greater than a year
	when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of
	antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed 112 To 12 T
Product Detail:	Mundticin KS, a bacteriocin produced by Enterococcus mundtii NFRI 7393 isolated
	from grass silage in Thailand, is active against closely related lactic acid bacteria and
	the food-borne pathogen Listeria monocytogenes. In this study, biochemical and
	genetic characterization of mundticin KS was done. Mundticin KS was purified to
	homogeneity by ammonium sulfate precipitation, sequential ion-exchange
	chromatography, and solid-phase extraction. The gene cluster (mun locus) for
	mundticin KS production was cloned, and DNA sequencing revealed that the mun
	locus consists of three genes, designated munA, munB, and munC. The munA gene

encodes a 58-amino-acid mundticin KS precursor, munB encodes a protein of 674 amino acids involved in translocation and processing of the bacteriocin, and munC encodes a mundticin KS immunity protein of 98 amino acids. Amino acid and nucleotide sequencing revealed the complete, unambiguous primary structure of mundticin KS; mundticin KS comprises a 43-amino-acid peptide with an amino acid sequence similar to that of mundticin ATO6 produced by E. mundtii ATO6. Mundticin KS and mundticin ATO6 are distinguished by the inversion of the last two amino acids at their respective C termini. These two mundticins were expressed in Escherichia coli as recombinant peptides and found to be different in activity against certain Lactobacillus strains, such as Lactobacillus plantarum and Lactobacillus curvatus. Mundticin KS was successfully expressed by transformation with the recombinant plasmid containing the mun locus in heterogeneous hosts such as E. faecium, L. curvatus, and Lactococcus lactis. Based on our results, the mun locus is located on a 50-kb plasmid, pML1, of E. mundtii NFRI 7393.

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.