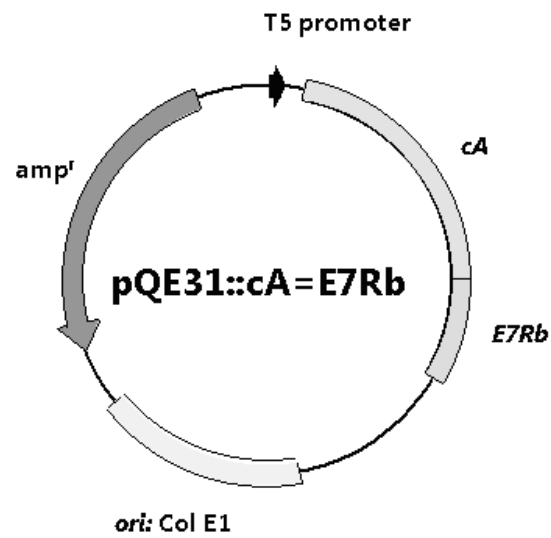


FIG. 1A



cA *Lactococcus lactis* IL1403 *AcmA* gene

E7Rb Human papillomavirus E7 gene

FIG. 1B

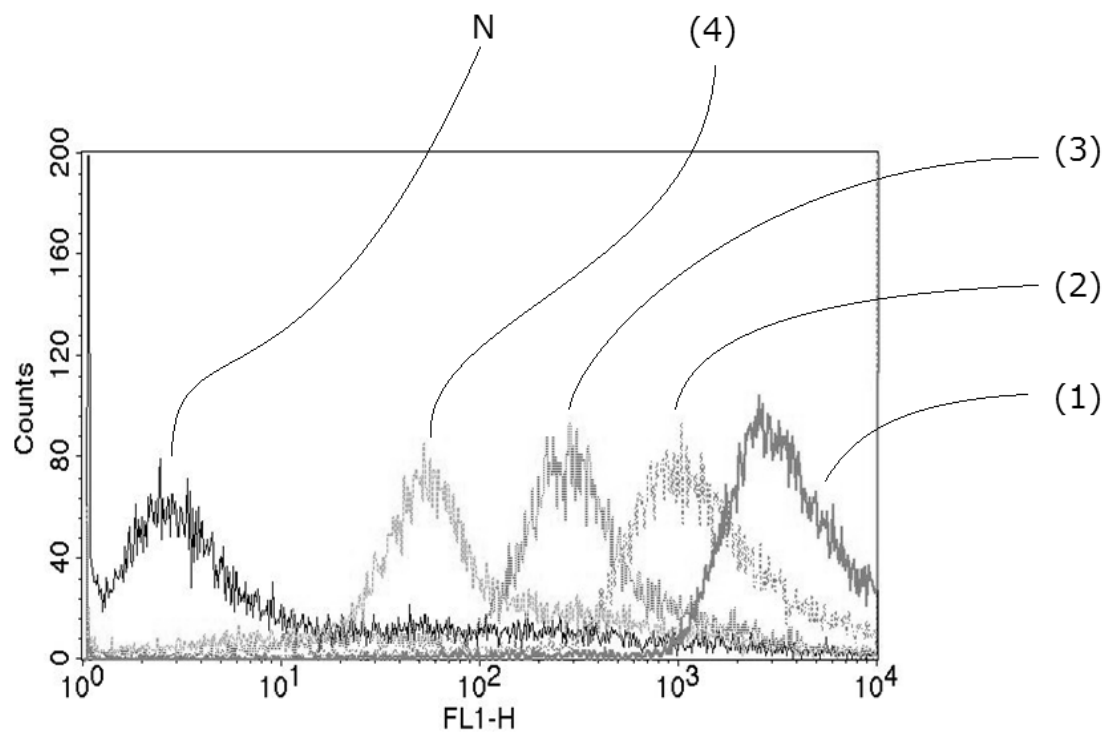


FIG. 1C

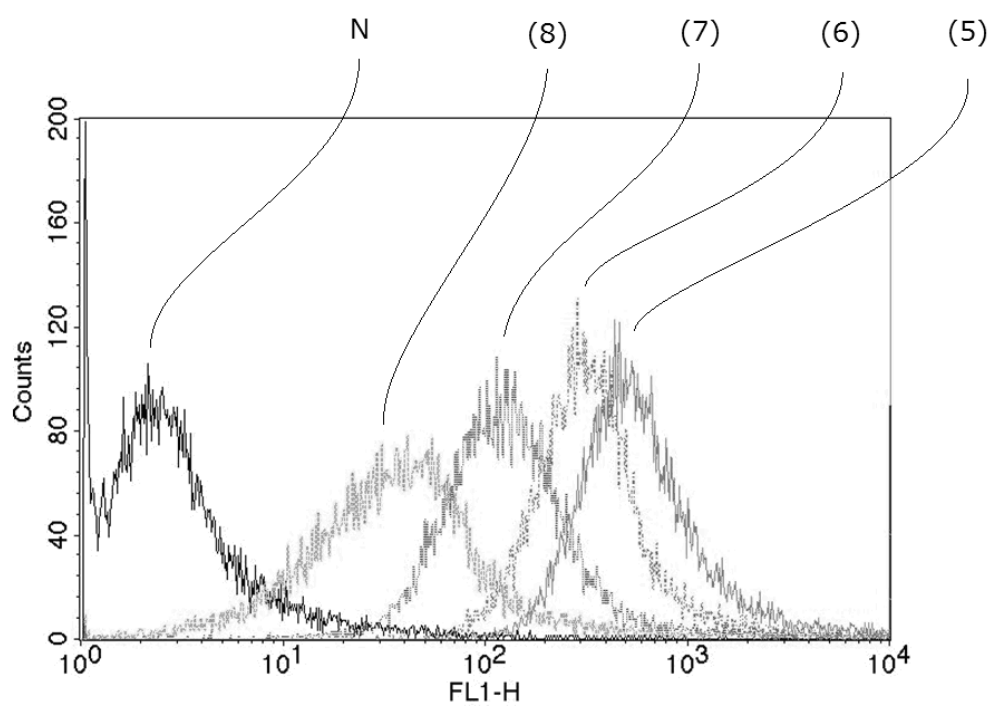


FIG. 1D

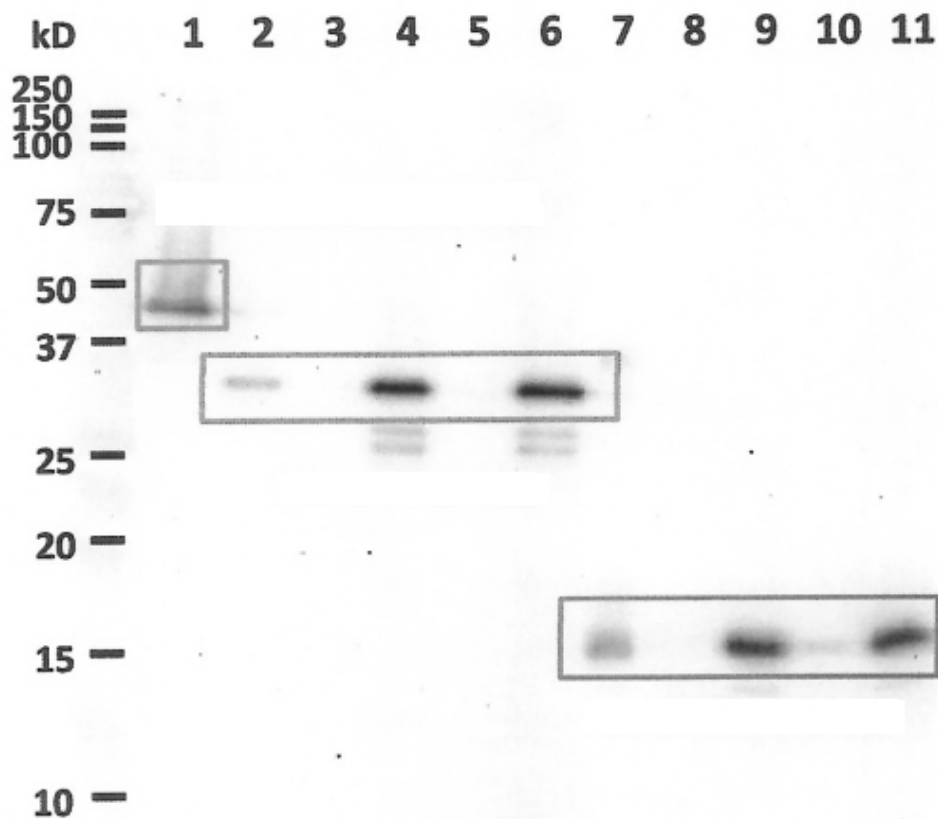
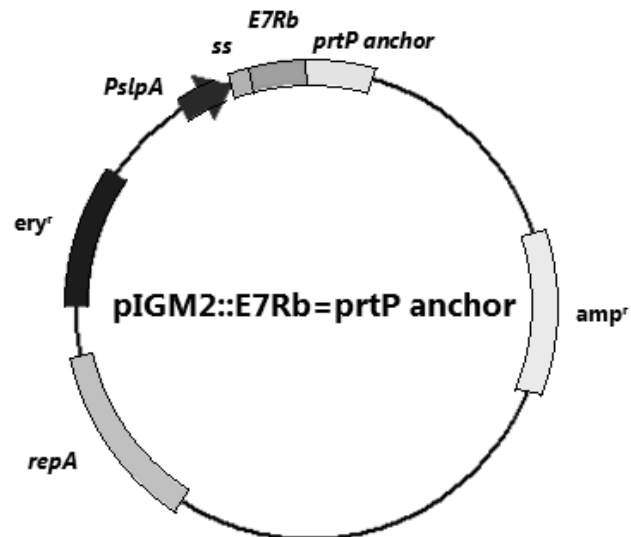


FIG. 2A



- PslpA*** promoter sequence of *Lactobacillus brevis* ATCC1559 S-layer protein
- ss*** secretion signal of *L. brevis* ATCC1559 *prtP* gene
- E7Rb*** Human papillomavirus E7 gene
- anchor*** proteinase sequence of *Lactobacillus casei*
- amp^r*** ampicillin resistant gene of plasmid pGEM-3
- ery^r*** erythromycin resistant gene of *Staphylococcus aureus* plasmid pE194

FIG. 2B

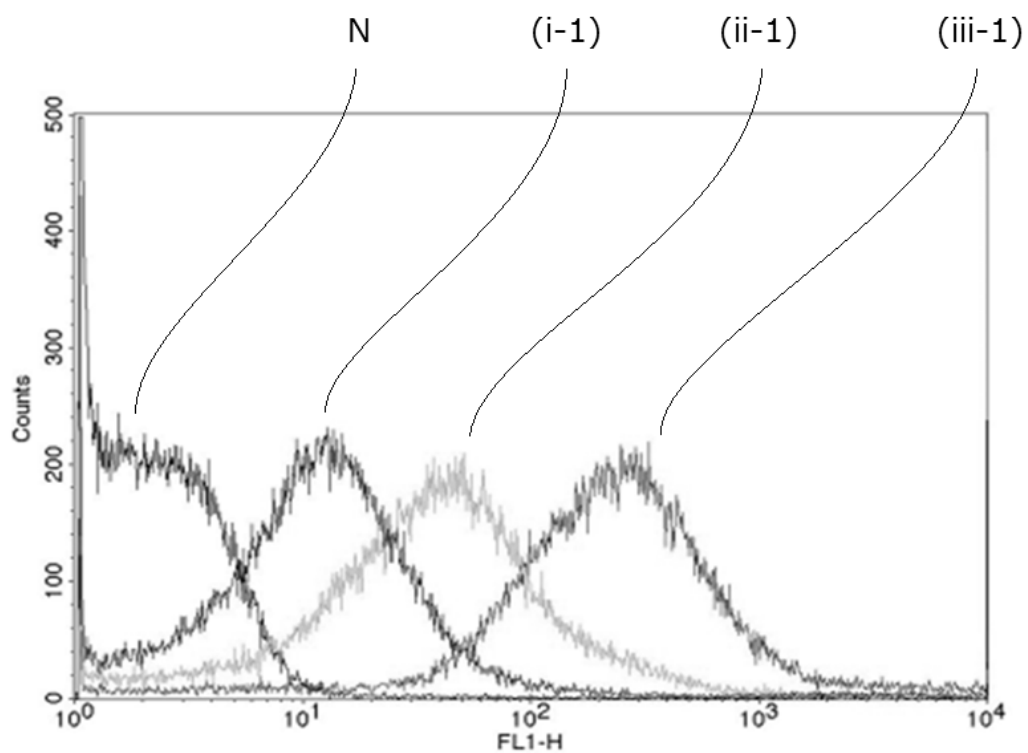


FIG. 3A

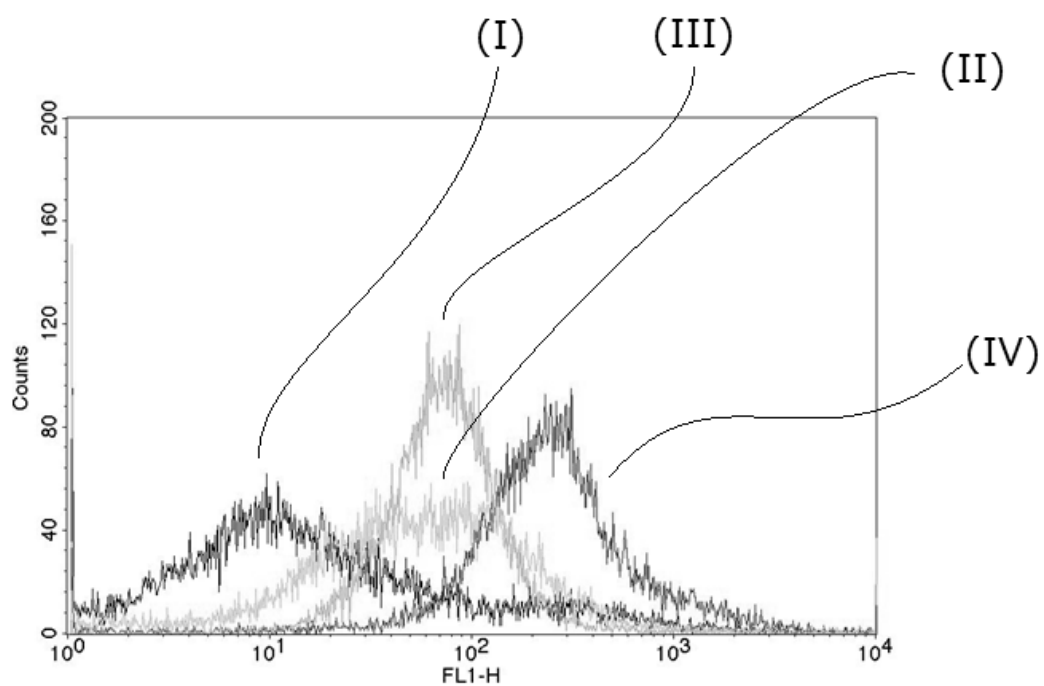


FIG. 3B

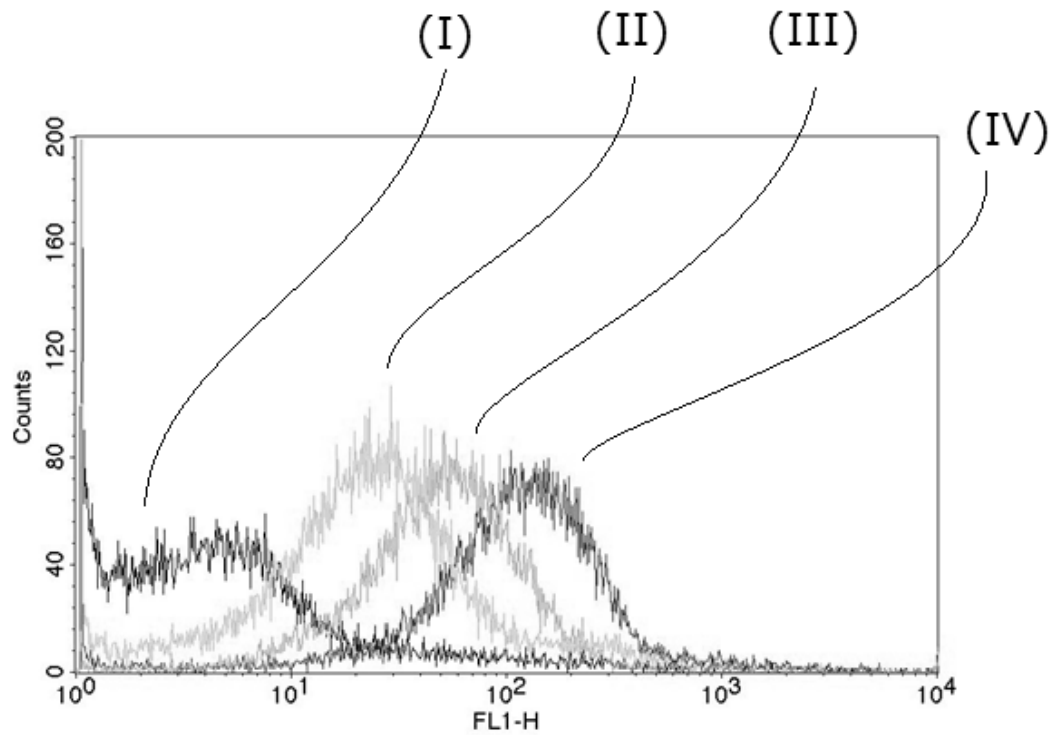


FIG. 4

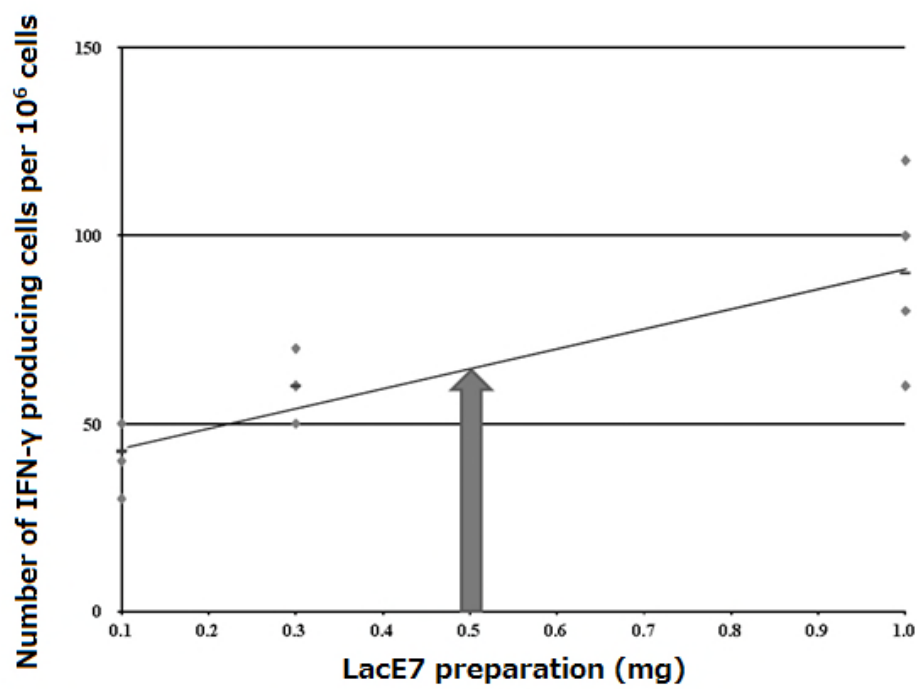
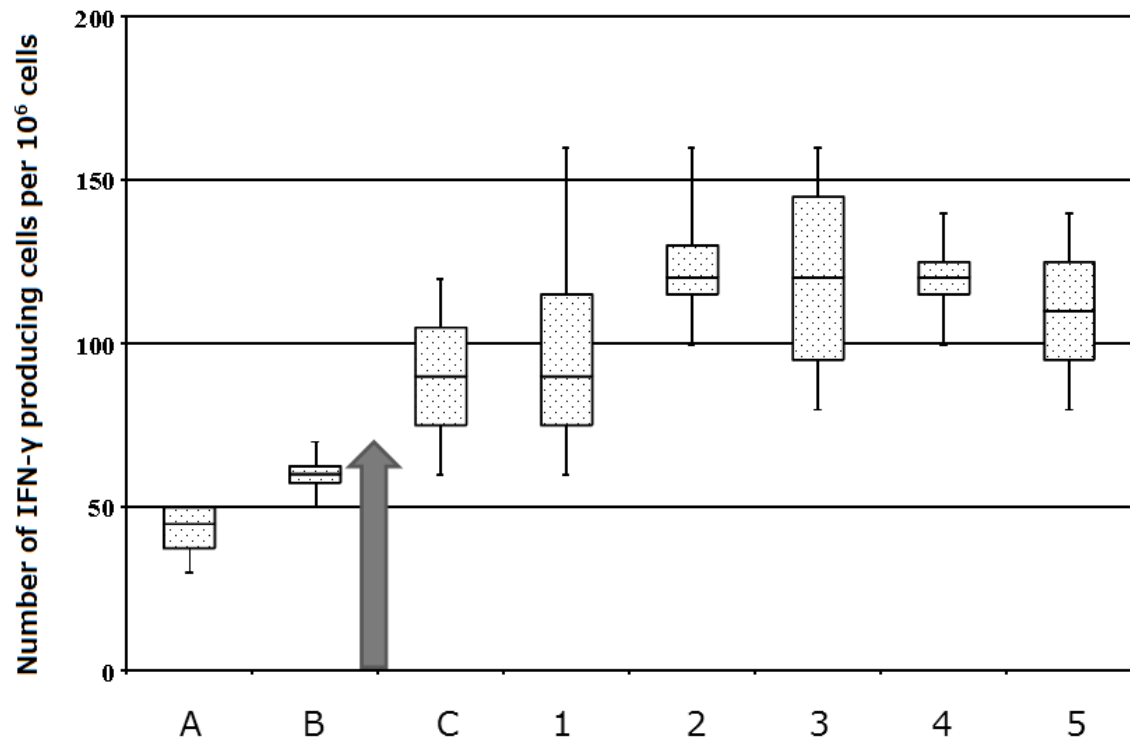


FIG. 5



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Japan Health Sciences Foundation

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AND HPV-RELATED TUMOR, AND MUCOSAL IMMUNITY INDUCER

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