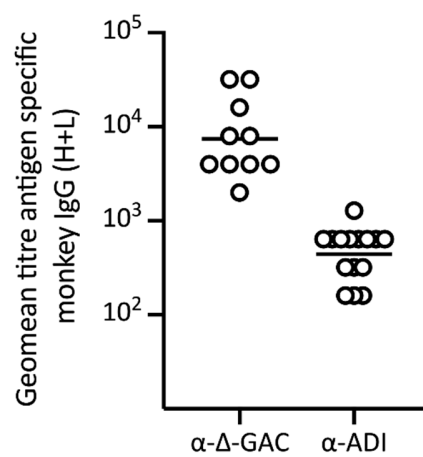


## Supplementary information



Supplementary figure S1. Anti- $\Delta$ GAC and anti-ADI antibodies in naïve NHP serum samples. Levels of anti- $\Delta$ GAC IgG antibodies in serum samples from naïve NHPs were from 1 to 2-log higher than baseline antibodies for protein antigens, such as ADI.

**Supplementary table S1.** Colonisation scoring system (Dunne, 2013).

Colonisation	Score
No $\beta$ -haemolytic colonies	0
<10 $\beta$ -haemolytic colonies in 1 <sup>st</sup> plate quadrant	1
>10 $\beta$ -haemolytic colonies in 1 <sup>st</sup> plate quadrant	2
>10 $\beta$ -haemolytic colonies in 1 <sup>st</sup> and 2 <sup>nd</sup> plate quadrants	3
>10 $\beta$ -haemolytic colonies in 1 <sup>st</sup> , 2 <sup>nd</sup> and 3 <sup>rd</sup> plate quadrants	4
>10 $\beta$ -haemolytic colonies in 1 <sup>st</sup> , 2 <sup>nd</sup> , 3 <sup>rd</sup> and 4 <sup>th</sup> plate quadrants	5

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**Supplementary table S2.** Pharyngitis and tonsillitis signs scoring system (Skinner, 2011).

Pharyngitis	Tonsillitis	Score
Normal	Normal tonsillar and oropharyngeal space	0
Mild erythema with hyperemic blood vessels	Approximate 25% increase in tonsil size; 0-25% occlusion of oropharyngeal space	1
More intense erythema and palatal petechiae	Approximate 50% increase in tonsil size; 25-50% occlusion of oropharyngeal space	2
Intense erythema with palatal petechiae and exudative tonsillitis	Approximate 75% increase in tonsil size; 50-75% occlusion of oropharyngeal space	3

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