Staphylococcal Protein A

Product information

**Background**
Protein A is a surface protein of *S. aureus* which binds IgG molecules by their Fc region. In serum, the bacteria will bind IgG molecules in the wrong orientation on their surface, which hinders opsonization and phagocytosis. Mutants of *S. aureus* lacking protein A are more efficiently phagocytosed in vitro and mutants in infection models have diminished virulence. Due to its affinity for the Fc region of many mammalian immunoglobulins, protein A is considered a universal reagent in biochemistry and immunology.

**Immunogen**
Purified, recombinant Protein A from GE Healthcare, product number 17-0872

**Host**
Chicken

**Clonality**
Polyclonal

**Purity**
Affinity purified IgY.

**Format**
Liquid in 0.9% NaCl, 0.1% sodium azide. pH 7.2

**Quantity**
100 µl (1 mg/ml)

**Storage**
Store at 4°C; make aliquots to avoid working with a stock. Please, remember to spin tubes briefly prior to opening them to avoid any losses that might occur from liquid material adhering to the cap or sides of the tubes.

**Tested applications**
Affinity purified IgY

**Related products**
- IMS02-109-334 | Anti-Streptococcal Protein G, chicken antibodies
- IMS02-136-331 | Anti-Peptostreptococcus magnus Protein L, chicken antibodies
- AS15 2849 | Anti-Staphyloccoccus aureus, mouse antibodies

**Secondary antibodies**

**Additional information**
The IgY fraction is isolated by a two-step PEG precipitation procedure followed by ammonium sulphate precipitation. This antibody can be used as capture and detection antibody in ELISA. as a detection ab, a dilution 1:2000 and can detect Protein A below 1ng/ml or 1ppm (where ppm is the concentration of Protein A relative to the concentration of IgG, e.g. 1 ng/mL Protein A in 1mg/mL of IgG equals 1 ppm).

This antibody is detecting both recombinant and native Protein A.

**Application information**

**Recommended dilution**
1 : 500 as a capture antibody (ELISA), 1 : 2000 as a detection antibody (ELISA), 1 : 1000 (WB)

**Expected | apparent MW**
55 | 47 kDa

**Confirmed reactivity**
*Staphylococcus aureus*

**Predicted reactivity**
*Staphylococcus aureus*

**Not reactive in**
No confirmed exceptions from predicted reactivity are currently known.

**Additional information**
One precipitation arc in immunodiffusion against Staphyloococal Protein A.