



Anti-SAOUHSC_00069 (full length) polyclonal Antibody (CABT-BL3228)

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

PRODUCT INFORMATION

Immunogen	Purified full length recombinant Staphylococcal Protein A
Isotype	IgY
Source/Host	Chicken
Species Reactivity	S. aureus
Purification	IgY fraction
Conjugate	Unconjugated
Applications	WB, ELISA
Cellular Localization	Secreted; cell wall.
Format	Liquid
Buffer	0.9% Sodium chloride
Preservative	0.1% Sodium Azide
Storage	Store at +4°C.

BACKGROUND

Introduction	Protein A is a 42 kDa surface protein originally found in the cell wall of the bacterium <i>Staphylococcus aureus</i> . It is encoded by the <i>spa</i> gene and its regulation is controlled by DNA topology, cellular osmolarity, and a two-component system called ArlS-ArlR. It has found use in biochemical research because of its ability to bind immunoglobulins. It is composed of five
---------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

homologous Ig-binding domains that fold into a three-helix bundle. Each domain is able to bind proteins from many mammalian species, most notably IgGs. It binds the heavy chain within the Fc region of most immunoglobulins and also within the Fab region in the case of the human VH3 family. Through these interactions in serum, where IgG molecules are bound in the wrong orientation (in relation to normal antibody function), the bacteria disrupts opsonization and phagocytosis.

GENE INFORMATION

Entrez Gene ID	3919448
----------------	-------------------------

UniProt ID	P02976
------------	------------------------
