



# Anti-S. aureus Staphylococcus Enterotoxin C Monoclonal antibody, Clone A287-13166 (DMAB4316)

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

## PRODUCT INFORMATION

<b>Product Overview</b>	Monoclonal Antibody to Staphylococcus aureus Enterotoxin C (SEC)
<b>Specificity</b>	Specific to Staphylococcus aureus Enterotoxin C (SEC). Recognizes SEC1, SEC2 and SEC3.
<b>Target</b>	S. aureus Staphylococcus Enterotoxin C
<b>Immunogen</b>	Staphylococcus aureus Enterotoxin C (SEC)
<b>Isotype</b>	IgG1
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	S. aureus
<b>Clone</b>	A287-13166
<b>Purification</b>	Protein A chromatography
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	Suitable for use in ELISA. Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded.
<b>Format</b>	Purified, Lyophilized Reconstitute with 1ml deionized water.
<b>Concentration</b>	1mg/ml (prior to lyophilization)

<b>Size</b>	1 mg
<b>Buffer</b>	Lyophilized from 0.01M Phosphate, pH 7.4 containing 0.9% Sodium chloride.
<b>Preservative</b>	None
<b>Storage</b>	Store lyophilized product at 2-8°C. After reconstitution, short term (up to 30 days) store at 2-8°C. Long term (up to one year) aliquot and store at -20°C to -70°C. If aliquoted for long term storage, fill volume should be equal to or greater than 50% of

## BACKGROUND

**Introduction**

Securin is an anaphaseinhibitor and plays an important role in DNA damage and spindle check point pathways. It inhibits sister chromatid separation by binding and inhibiting Esp 1, a cysteine protease that causes cleavage of the cohesin Scc 1 that binds the sister chromatids together. It is responsible for targeting of Esp 1 to the nucleus and its binding to the spindle. Degradation of Securin occurs shortly before anaphase, which liberates Esp 1 and is a pre-requisite for anaphase entry. It is targeted for degradation by ubiquitination mediated by cyclosome / anaphase promoting complex (APC) functioning as a ubiquitin ligase. In response to DNA damage Chk 1 phosphorylates Securin to stabilize it against the APC mediated destruction, hence preventing the entry of such a cell into anaphase. Securin is highly expressed in various human tumors, including pituitary, adrenal, kidney, liver, and ovarian tumors, and in cell lines derived from pituitary tumors, breast tumors, endometrial tumors, and ovarian tumors.

**Keywords**

SEC; Staphylococcus aureus Enterotoxin C; AW555095; C87862; Cut2; EAP1; ESP1 ASSOCIATED PROTEIN 1; Esp1-associated protein; MGC138276; hPTTG; MGC126883; Pds1; Pituitary tumor transforming 1; Pituitary tumor transforming protein 1; Pituitary tumor-transforming 1, isoform CRA\_a ; Pituitary tumor-transforming 1, isoform CRA\_b; Pituitary tumor-transforming gene 1; Pituitary tumor-transforming gene 1 protein; PTTG 1; PTTG; PTTG1 protein; Pttg3; TUMOR TRANSFORMING 1; Tumor transforming protein 1; TUTR; TUMOR TRANSFORMING 1