

Recombinant *S. aureus* SrtA protein, His-tagged

Cat. No. srtA-02S **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant <i>S. aureus</i> SrtA protein, fused to His-tag, was expressed in <i>E. coli</i> .
Species	<i>S.aureus</i>
Source	<i>E.coli</i>
Description	Sortase belongs to a class of transpeptidases that utilize an active site cysteine thiol to modify proteins by recognizing and cleaving a carboxy-terminal sorting signal, LPXTG (where X is any amino acid), between the threonine and glycine residues. Sortase A5 is an engineered pentamutant variant of the wild-type sortase from <i>Staphylococcus aureus</i> that is significantly more active than the wild-type sortase. Sortase A5 site-specifically labels antibodies or proteins when the LPXTG recognition sequence is displayed. Easily attach a wide variety of labels such as peptides, DNA, carbohydrates or fluorophores containing a poly-Glycine sequence (Gly)_n.
Form	Sortase A5 protein expressed in <i>E. coli</i> and provided at 1 mg/ml in 50 mM HEPES pH 7.5, 150 mM NaCl and 20% glycerol.
Molecular Mass	17.8 kDa
AA Sequence	MQAKPQIPKDKSKVAGYIEIPDADIKEPVYPGPATREQLNRGVSF A EENESLDDQNI SIAGHTFIDRPNYQFTNLKAAKKGSMVYFKVGNETRKYKMTSIRNVKPT AVGVLD EQ KGKDKQLTLITCDDYNEETGVWETRKIFVATEVKLEHHHHHHH
Storage	Store at -80 centigrade to prevent degradation and avoid repeated freeze/thaw

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

cycles.

Expiry 6 months

Concentration 1.0 ug/ul

GENE INFORMATION

Gene Name [srtA class A sortase SrtA \[Staphylococcus auricularis \]](#)

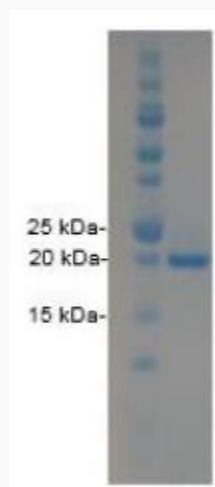
Official Symbol [srtA](#)

Gene ID [64982938](#)

Protein Refseq [WP_059108021.1](#)

UniProt ID [Q2FV99](#)

Sortase A5 protein gel.



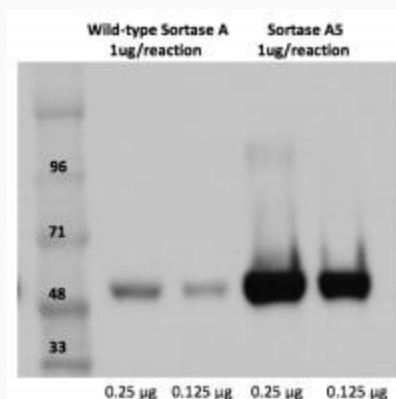
Sortase A5 run on an SDS-PAGE gel and stained with Coomassie Blue.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

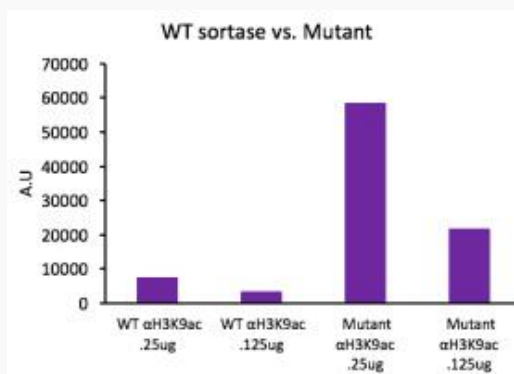
 45-1 Ramsey Road, Shirley, NY 11967, USA

Sortase A5 has increased labeling efficiency compared to the Wild-Type sortase.



Following purification, 0.25 and 0.125 µg of labeled antibodies were run on an SDS-PAGE gel and labeling was detected using streptavidin-HRP. Lanes 1 & 2: 0.25 µg and 0.125 µg of H3K9Ac AbFlex Ab labeled with wild-type Sortase, respectively. Lanes 3 & 4: 0.25 µg and 0.125 µg of H3K9Ac AbFlex Ab labeled with Sortase A5, respectively.

Sortase A5 has increased labeling efficiency compared to the Wild-Type sortase.



The intensity of the labeling was quantified using BioRad's Gel Doc imaging system, represented here as arbitrary units.