



Anti-Sigma 38 of *Serratia marcescens*, Rabbit-Polyclonal Antibody

Catalog No. GB-10391

Quantity: 100 μ g

Applications: Western blot

Antigen species: *Serratia marcescens*

Reactivity: *Serratia marcescens*

Host species: Rabbit

Form: Protein A affinity purified Antibody

Target description

Several stationary-phase survival genes are regulated by the alternate sigma factor, σ^{38} , encoded by *rpoS*. σ^{38} has been shown to regulate approximately 30 proteins, some of which enhance survival in the presence of acid, salt, or heat.

Antigen

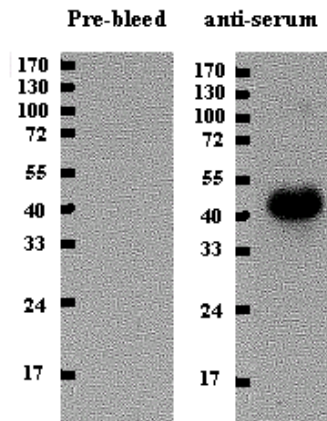
This polyclonal antibody was raised by immunizing rabbit with a Sigma 38 of *Serratia marcescens* protein.

Application

The antibody specificity was assayed by Western blot analysis (WB) with the sigma 38 of *Serratia marcescens*. The antibody titer is more than 1/2000 dilution for Western blot analysis (WB) of sigma 38 protein. It has not been tested in the other applications. However, for the first testing, we recommend 1/5,000 dilution for ELISA, 1/1600 dilution for tissue extracts or cell lysates for WB, 1/100 dilution for immuno-histochemistry (IHC) staining on frozen cryosections, 1/50 dilution for IHC staining on paraffin embedded sections.

Related Products

1. Anti- sigma 32 of *Serratia marcescens* pAb (GB-10392).



M.W. of Sigma 38 of *Serratia marcescens*: 44 KDa

Western blotting Protocol

1. Antigens are loaded 4 μ g per well in 12% SDS-PAGE.
2. Block with 3%BSA/TBST for 1 hour at RT.
3. Wash blot with 0.05% TBST 3 X 15 minutes.
4. Add 2000X dilution of antibody.
5. Incubate for 1 hour at RT.
6. Wash blot with 0.05% TBST 3 X 15 minutes.
7. Add appropriate amount of correct secondary antibody, goat anti-rabbit antibody conjugated with HRP). Incubate for 1 hour at RT.
8. Wash blot 3 X 15 minutes with 0.05% TBST at RT.
9. Add HRP substrate and develop

Storage

It is supplied as protein A affinity purified antibody in lyophilized powder. Redissolve the powder with 100 microliter sterile water will restore to the original concentration 1mg/ml (1 \times PBS). Store at 4 $^{\circ}$ C for short-term application. For long-term storage, aliquot and store at -20 $^{\circ}$ C.

References

1. Jeffrey, J., Byrd, Ann, M., Cheville., Jeffrey, L., Boseand, Charles, W., Kaspar. 1999. Lethality of a Heat- and Phosphate-Catalyzed Glucose By-Product to Escherichia coli O157:H7 and Partial Protection Conferred by the *rpoS* Regulon. *Applied and Environmental Microbiology*. Vol. 65, p. 2396-2401.

FOR RESEARCH USE ONLY AND NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE