

## SecE

Cat.No. 381 002; Polyclonal rabbit antibody, 200 µl antiserum (lyophilized)

### Data Sheet

Reconstitution/ Storage	200 µl antiserum, lyophilized. For reconstitution add 200 µl H <sub>2</sub> O, then aliquot and store at -20°C until use.
Applications	<b>WB:</b> 1 : 1000 (AP staining) <b>IP:</b> not tested yet <b>ICC:</b> not tested yet <b>IHC:</b> not tested yet <b>IHC-P/FFPE:</b> not tested yet
Immunogen	Recombinant protein corresponding to AA 1 to 144 from Mycobacterium smegmatis SecE
Reactivity	Reacts with: prokaryotes. Other species not tested yet.
Specificity	Specific for SecE.

### TO BE USED IN VITRO / FOR RESEARCH ONLY NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS

Bacteria have developed several systems for secreting their proteins to the extracellular space. Sec mediated export is necessary for the export of unfolded proteins to the extracytoplasmic environment. Central to the Sec pathway is a heterotrimeric protein complex composed of the SecY, **SecE** and SecG proteins which form a channel in the cytoplasmic membrane. The cytoplasmic ATPase SecA is associated with the SecYEG complex and together they translocate proteins through the channel with repeated rounds of ATP-binding and hydrolysis.

### Selected General References

Protein export systems of Mycobacterium tuberculosis: novel targets for drug development?  
Feltcher ME, Sullivan JT, Braunstein M  
Future microbiology (2010) 5(10): 1581-97.

Protein secretion systems in Mycobacteria.  
Champion PA, Cox JS  
Cellular microbiology (2007) 9(6): 1376-84.

The Trojan horse: survival tactics of pathogenic mycobacteria in macrophages.  
Nguyen L, Pieters J  
Trends in cell biology (2005) 15(5): 269-76.

Two nonredundant SecA homologues function in mycobacteria.  
Braunstein M, Brown AM, Kurtz S, Jacobs WR  
Journal of bacteriology (2001) 183(24): 6979-90.