

## Product datasheet for **TA396522S**

### **tetX Rabbit Polyclonal Antibody**

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Applications:</b>	ELISA, WB
<b>Recommended Dilution:</b>	<b>WB:</b> 1:1,000-1:40,000 <b>ELISA:</b> 1:50,000-1:250,000
<b>Reactivity:</b>	Clostridium tetani
<b>Host:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>Immunogen:</b>	This antibody was prepared from whole rabbit serum produced by repeated immunizations with a polyhistidine-tagged TTFC fusion protein expressed in E. coli corresponding to full length TTFC.
<b>Specificity:</b>	This antibody is directed against the C fragment of Tetanus toxin derived from Clostridium tetani. The product was prepared from monospecific antiserum by delipidation and defibrination. A BLAST analysis was used to suggest cross reactivity with Clostridium tetani. Cross-reactivity with TTFC from other sources have not been determined.
<b>Formulation:</b>	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
<b>Concentration:</b>	90 mg/mL - lot specific
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.
<b>Stability:</b>	Expiration date is three (3) months from date of receipt.
<b>Database Link:</b>	<a href="#">P04958</a>



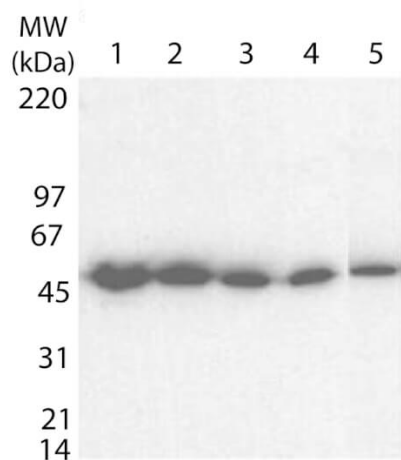
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**Background:** The illness known as Tetanus is caused by a neurotoxin produced by the anaerobic bacterium *Clostridium tetani*. *C. tetani* is commonly found in soil, feces, and on many objects lying on the ground, such as rusty metal, hence puncture wounds are a common cause of tetanus. It acts upon the presynaptic membranes of both central and peripheral nervous systems to block the release of neurotransmitters. In its toxic form tetanus neurotoxin is a 150 kDa protein, consisting of two major components: a light chain and heavy chain. The light chain contains the enzymatic portion of the toxin and is responsible for its toxic effects. The heavy chain binds to the neuron and aids delivery of the light chain to the neuron interior. A single disulfide bond links light and heavy chains.

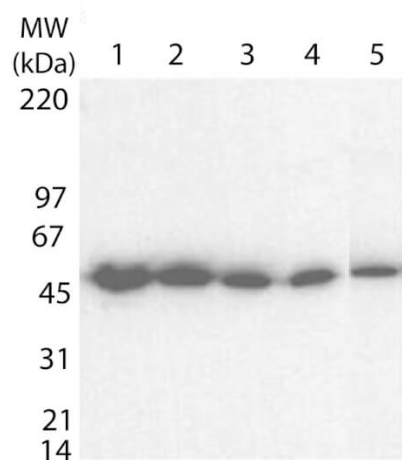
**Synonyms:** rabbit anti-Tetanus Toxin Fragment C Antibody , TTfC, tentoxylysin, tetX

**Note:** This antibody has been tested for use in ELISA and western blot. For western blots expect a band of approximately 52 kDa in size corresponding to full-length TTfC. Specific conditions for reactivity should be optimized by the end user.

### Product images:



Western blot using Rockland's Anti-tetanus toxin C antibody shows detection of a protein band at ~52 kDa corresponding to full length 6XHis-TTfC fusion protein. Lanes 1-5 contain 10ng, 5ng, 2.5ng, 1.25ng and 0.0625ng protein respectively. MW markers are shown at the left for size comparison. After blocking, the membrane was probed with the primary antibody diluted to 1:100,000 followed by reaction with a 1:20,000 dilution of HRP conjugated donkey-anti-Rabbit IgG [H&L] (p/n 611-703-127). Personal communication Jonathan Francis, Mass General Hospital.



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