

Anti- Tetanus Toxin antibody, mouse monoclonal (TH-11)

Product code	64-035
Size	100 µg
Storage	-20°C
Concentration	1.0 mg/ml
Buffer	PBS- with 50% glycerol
Purity	Purified IgG fraction with protein A from hybridoma cell culture medium.
Immunogen	Tetanus toxoid (Clostridium tetani Harvard vaccine strain)
Isotype	Mouse IgG1κ
Reactivity	Light Chain of tetanus toxin
Special notes	N/A
Application	<ol style="list-style-type: none"> 1. Western blotting (1/1,000 dilution) 2. ELISA (assay dependent) 3. Neutralising of the toxin activity (assay dependent) Other applications have not been tested.
Background	<p>Tetanus toxin acts by inhibiting neurotransmitter release. It binds to peripheral neuronal synapses, is internalized and moves by retrograde transport up the axon into the spinal cord where it can move between postsynaptic and presynaptic neurons. It inhibits neurotransmitter release by acting as a zinc endopeptidase that catalyzes the hydrolysis of the '76-Gln- -Phe-77' bond of synaptobrevin-2.</p> <p>Molecular processing: The toxin encoded 1,315 amino acids with mass of 150,682 Da which is proteolytically processed into Light Chain (2-457) and Heavy Chain (458-1315) upon secretion. These remain linked by a disulfide bridge and are non-toxic after separation.</p>
Data Link	UniProtKB P04958 Tetanus toxin
Please note: All products are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR MILITARY USE.	

Data Images: 64-035 Anti-Tetanus Toxin antibody, mouse monoclonal (TH-11)

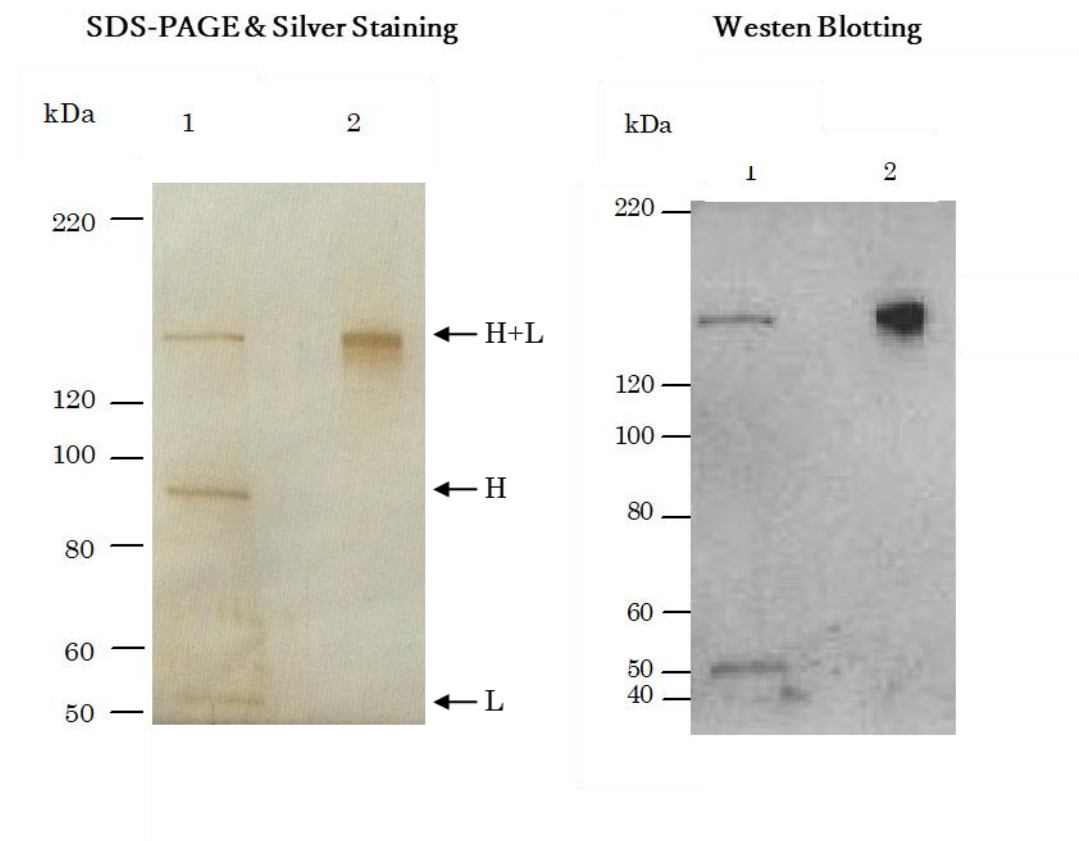


Fig.1 Western Blot analysis of Tetanus Toxin with anti-Tetanus Toxin antibody (TH11)

Left Panel is SDS-PAGE analysis of partially purified tetanus toxin, silver stained, and Right panel is western blot analysis of the same samples.

Lane 1 sample was reduced and Lane 2 sample was unreduced.

Tetanus toxin Heavy and Light chains are so tightly attached and they are difficult to separate completely by heating in SDS in the presence of mercaptoethanol. In the above reduced samples, part of the reduced sample remained attached as shown by “H+L” in lane 1 of Left panel . To dissociate the two attached fragments completely, addition of 2M urea is required

The antibody (TH11) recognizes Light chain of the toxin. The anti-tetanus toxin antibody was used at 1/1,000 dilution.