

Reagents for Tetanus Vaccine Development

Tetanus, also known as lockjaw, is a bacterial infection caused by *Clostridium tetani* and characterized by muscle spasms. *Clostridium tetani* produces the tetanus neurotoxin (TeNT), which is released as a single polypeptide chain of 150 kDa.

Unlike most infectious diseases, naturally acquired tetanus does not usually immunize people after they recover. Tetanus can be prevented by tetanus toxoid vaccination. For children under the age of seven, tetanus vaccine is often administered as a combined vaccine, the DPT/DTaP vaccine, which also includes vaccines against diphtheria and pertussis. For adults and children over seven, the Td vaccine (tetanus and diphtheria) or Tdap (tetanus, diphtheria, and acellular pertussis) is commonly used.

Creative Diagnostics provides immunological reagents including antibodies and antigens to develop quantitative immunoassays for the detection of TeNT in various species. Our ELISA test kits provide quantitative or qualitative *in vitro* assays for antibodies against tetanus toxoid.

Performance

Tetanus ELISA Kits

- ELISA test kits provide quantitative or qualitative *in vitro* assays for human, mouse, rat, rabbit and monkey antibodies of the immunoglobulin class IgG or IgM against tetanus toxoid.
- Contain quality control antibodies and standards for accurate quantification.

Cat. No.	Product Name	Species Reactivity	Detection Sample
DEIA1794	C. tetani toxin IgG ELISA Kit (Qualitative)	Human	Serum
DEIA378	Anti-C. tetani Toxoid IgG ELISA Kit (Quantitative)	Human	Serum, plasma
DEIA05565	C. tetani IgG - ELISA Kit (Quantitative)	Human	Serum or plasma (citrate, heparin)
DEIASL264	Anti-C. tetani Toxoid IgG ELISA Kit (Quantitative)	Mouse	Serum
DEIASL273	Anti-C. tetani Toxoid IgG ELISA Kit (Quantitative)	Rabbit	Serum
DEIASL075	Anti-C. tetani Toxoid IgG ELISA Kit (Quantitative)	Rat	Serum, plasma
DEIASL076	Anti-C. tetani Toxoid IgM ELISA Kit (Quantitative)	Rat	Serum, plasma
DEIASL077	Anti-C. tetani Toxoid IgG1 ELISA Kit (Quantitative)	Monkey	Serum, plasma

Tetanus Antibodies

- Antibody pairs can be used in the development of sandwich ELISA.
- Most Antibodies are validated for ELISA, WB, etc.
- Anti-TeNT MAbs are highly specific to *C. tetani*.
- CABT-NS1533 effectively neutralizes TeNT.

Cat. No.	Product Name	Host	Application
CABT-NS1652	Anti- <i>C. tetani</i> Toxin (TeNT) Polyclonal Antibody	Rabbit	ELISA (Cap)
CABT-NS1530	Anti- <i>C. tetani</i> Toxin Monoclonal Antibody, clone IZC 279-22	Mouse	ELISA (Det)
DCABY-466	Anti- <i>C. tetani</i> Toxin Monoclonal antibody, clone Uful7	Mouse	ELISA, FuncS, WB
CABT-NS1531	Anti- <i>C. tetani</i> Toxin Monoclonal Antibody, clone TetF4	Mouse	ELISA, WB
CABT-NS1533	Anti- <i>C. tetani</i> Toxin Monoclonal Antibody, clone D124	Mouse	ELISA, WB, Neut
CABT-NS1534	Anti- <i>C. tetani</i> Toxoid (Tetanus Light chain) Monoclonal Antibody, clone 23D22	Mouse	ELISA, WB
CABT-NS1535	Anti- <i>C. tetani</i> Toxoid (Heavy Chain fragment C) Monoclonal Antibody, clone 29.2.8	Mouse	ELISA, WB
CABT-NS1536	Anti- <i>C. tetani</i> Toxoid (J558;9A) Monoclonal Antibody, clone 29.2.23.7	Mouse	ELISA, WB
CABT-NS1537	Anti- <i>C. tetani</i> Toxoid (VH J558; VK9A) Monoclonal Antibody, clone 46G8	Mouse	ELISA, WB
CABT-NS1538	Anti- <i>C. tetani</i> Toxoid (VH Q52N; VK 12/13) Monoclonal Antibody, clone 6F5	Mouse	ELISA, WB
CABT-NS1540	Anti- <i>C. tetani</i> Toxoid (VH 36-60; Vk 19/28) Monoclonal Antibody, clone 92I21	Mouse	ELISA, WB
CABT-NS1539	Anti- <i>C. tetani</i> Toxoid (VH 36-60; VK4,5) Monoclonal Antibody, clone 83C0	Mouse	ELISA, WB
DPATB-H83287	Anti- <i>C. tetani</i> Toxin Polyclonal Antibody	Rabbit	ELISA, WB
DPAB0141	Anti- <i>C. tetani</i> Toxoid Polyclonal Antibody	Goat	IEP
DMABT007	Anti- <i>C. tetani</i> Toxoid Polyclonal Antibody	Goat	ELISA, WB, IF, IP

Tetanus Antigens

- >80% purity (SDS-PAGE), manufactured on large scales.
- *C. tetani* related native antigens and recombinant antigens expressed by *E. coli* or *P. fluorescens* are used for the detection of antibodies specific to TeNT in assays including ELISA, WB and HA.

Cat. No.	Product Name	Source	Application
DAGB114	<i>C. tetani</i> Tetanolysin	Native	ELISA
DAG2692	<i>C. tetani</i> Toxoid Antigen	Native	Immunoassays
DAGC698	Native <i>C. tetani</i> Antigen	Native	Immunogen, WB, ELISA
DAG-WT234	Native <i>C. tetani</i> Toxin Antigen	Native	N/A
DAGB113	<i>C. tetani</i> Toxin (C-Fragment) [FITC]	Native	HA
DAG2636	Recombinant <i>C. tetani</i> TeNT Light Chain [His]	<i>E. coli</i>	N/A
DAGB112	Recombinant <i>C. tetani</i> Toxin Light Chain	<i>E. coli</i>	ELISA
DAG-WT1006	Recombinant <i>C. tetani</i> Toxin [His, Avi]	<i>E. coli</i>	Immunoassays
DAG4063	Recombinant <i>C. tetani</i> Toxin C-Fragment	<i>P. fluorescens</i>	N/A