

## Anti-alpha-Latrotoxin [TPL0020\_02\_G9] Standard Size Ab01645-15.0

This antibody does not have a J-chain and therefore presents as a hexamer, rather than a pentamer.  
Denmark Technical University

This full-length, reformatted human antibody was made using the variable domain sequences of the original Human scFv format, for improved compatibility with existing reagents, assays and techniques.

**Isotype and Format:** Human IgM, Lambda

**Clone Number:** TPL0020\_02\_G9

**Alternative Name(s) of Target:** α-latrotoxin; Alpha-latrotoxin-Lt1a; Alpha-LTX-Lt1a; Alpha-LTX; latrotoxin; Latrodectus mactans tredecimguttatus

**UniProt Accession Number of Target Protein:** P23631

**Published Application(s):** ELISA

**Published Species Reactivity:** Latrodectus tredecimguttatus (Mediterranean black widow spider)

**Immunogen:** Single chain variable fragment (scFv)-displaying phages from the IONTAS phage library λ with a phage diversity of  $1.6 \times 10^{10}$  were used to select scFvs, which bind biotinylated α-latrotoxin from the Mediterranean black widow spider (L. tredecimguttatus). Three rounds of selections were performed to enrich the pool of phages with high affinity to the toxin.

**Specificity:** TPL0029\_02\_G9 antibody recognizes alpha-Latrotoxin from the venom of Latrodectus tredecimguttatus (Mediterranean black widow spider).

**Application Notes:** TPL0029\_02\_G9 antibody was demonstrated to have high affinity towards the alpha-Latrotoxin from the venom of Latrodectus tredecimguttatus (Mediterranean black widow spider) via ELISA. This antibody is recommended for the research on the antitoxin against Latrodectus tredecimguttatus spider bites.

**Antibody First Published in:** Føns et al. Discovery of human antibody fragments against spider venom toxins. 10.13140/RG.2.2.21155.71202. [PMID:](#)

**Note on publication:** This poster describes the generation and characterization of the TPL0029\_02\_G9 antibody, as a potential treatment for Latrodectus tredecimguttatus spider bites.

## Product Form

**Size:** 50 µg Purified antibody.

**Purification:** Affinity Purified using a recombinant lectin column

**Supplied In:** PBS with 0.02% Proclin 300.

**Storage Recommendation:** Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

**Concentration:** 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.