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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-Usutu virus envelop protein E [A8] Standard Size Ab03677-30.11

This is an scFv fragment with a His tag.

This is a reformatted chicken scFv antibody, based on the original chicken scFv format, created for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: scFv fragment (His), ScFv

Clone Number: A8

Alternative Name(s) of Target: USUV; USUV genome polyprotein; USUV envelope protein; genome polyprotein; envelope protein E; Usutu virus; Domain III (DIII); flavivirus

UniProt Accession Number of Target Protein: Q5WPU5

Published Application(s): WB, ELISA

Published Species Reactivity: Usutu virus (USUV)

Immunogen: A DIII-immune phage display scFv library was generated by immunizing three chickens against group A and group I USUV DIII. The original antibody was isolated from this library by panning against Usutu virus A and Usutu virus B.

Specificity: This antibody binds an epitope within domain III of the envelope protein of Usutu virus (USUV). Usutu virus is a mosquito-borne flavivirus belonging to the Japanese encephalitis virus (JEV) serocomplex, which is an emerging zoonotic arbovirus of concern because of its pathogenicity to humans. This virus propagates via a zoonotic life cycle with birds as amplifying hosts and ornithophilic mosquitoes acting as vectors. USUV infections cause mild influenza-like symptoms, in sever cases invasion of the central nervous system in immunocompromised patients causing meningoencephalitis and meningitis.

Application Notes: This antibody can bind the E protein domain III antigens of USUV strains A, B and I in an ELISA. Surface plasmon resonance was used for the determination of binding affinity of this scFv antibody. The scFv antibody binds USUS I domain III with a Kd of 0.06–0.10 µM. This antibody can also detect USUV E protein DIII from groups A, B, and I in a western blot (PMID: 32829514).

Antibody First Published in: Schoenenwald et al. Development and characterization of specific anti-Usutu virus chicken-derived single chain variable fragment antibodies. Protein Sci. 2020 Nov;29(11):2175-2188. [PMID:32829514](#)

Note on publication: Describes the generation of chicken antibodies against Usutu virus.

Product Form

Size: 50 µg Purified antibody.

Purification: Purified by Immobilized Metal Affinity Chromatography

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.