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Zuschläge

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- Gefahrgutzuschlag
- Expressversand

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Anti-USutu virus envelop protein E [A9] Standard Size Ab03678-23.0

Isotype and Format: Rabbit IgG, Lambda

Clone Number: A9

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

UniProt Accession Number of Target Protein: Q5WPU5; Q9Q6P4

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 severe 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, I and West Nile virus in an ELISA. Surface plasmon resonance was used for the determination of binding affinity of this scFv antibody. The scFv antibody binds USUV I and WNV domain III with a K_d of 0.29–0.38 µM and 0.10 µM respectively. This antibody can also detect USUV E protein DIII from groups A, B, and I as well as WNV 2741 E protein DIII 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: 100 µg Purified antibody.

Purification: Protein A affinity purified

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.