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- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-M2 [C2] Ab03448-23.0-BT

This full-length chimeric rabbit 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: Rabbit IgG, Kappa

Clone Number: C2

Alternative Name(s) of Target: M2 protein; M; Matrix protein 2; Proton channel protein M2; M2-E10

UniProt Accession Number of Target Protein: P05780

Published Application(s): FC, IF

Published Species Reactivity: Influenza A

Immunogen: The original antibody was generated by phage display and yeast display based antibody selection and screening. The purified M2 cytodomain was biotinylated and used as a target for phage display-based single-chain variable fragment (scFv) antibody selection. After two rounds of phage selection, scFv genes were cloned into a yeast display vector, and the yeast display library was sorted for binding.

Specificity: The antibody is specific for M2-cytoplasmic domain. M2 is a 97-amino acid protein of which approximately half (aa 47-97) comprises the cytoplasmic domain. M2 is highly conserved among virus strains.

Application Notes: The scFv-Fc version of the antibody was tested against HEK cells expressing full-length M2 protein. Fluorescent signals were visible lining the internal cell wall of HEK M2 cells after fixation and permeabilization. No signal was visible in HEK cells that do not express M2, or when the cells were not permeabilized. The ability of the antibody to recognize native M2 protein produced during IVA infection of MDCK cells with the H3N2 (A/PCh/1/73) and H1N1 (A/PR/8/34) strains of influenza was detected. Efficient and specific recognition of native M2 protein by the scFv-Fc fragment of the antibody was observed via fluorescent microscopy and flow cytometry (Velappan et al., 2020; PMID: 33206590).

Antibody First Published in: Velappan et al. Selection and verification of antibodies against the cytoplasmic domain of M2 of influenza, a transmembrane protein MAbs. Jan-Dec 2020;12(1):1843754.

[PMID:3320659](#)

Note on publication: The original paper describes the generation of the original antibody, using phage and yeast display selection techniques.

Product Form

Size:

1 mg Purified antibody in bulk size.

Purification: Protein A affinity purified

Supplied In: PBS only.

Storage Recommendation: Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. 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.