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Anti-HA [Mab 3.1] Ab03626-23.0-BT

This chimeric rabbit antibody was made using the variable domain sequences of the original Human Fab format for improved compatibility with existing reagents assays and techniques.

Isotype and Format: Rabbit IgG, Kappa

Clone Number: Mab 3.1

Alternative Name(s) of Target: Hemagglutinin

UniProt Accession Number of Target Protein: Q9WFX3

Published Application(s): crystallization, in vivo, neutralization, ELISA

Published Species Reactivity: Influenza A (H1N1)

Immunogen: A Fab phage display library was prepared from mature B cells of a healthy donor and the original antibody was isolated by panning against HA from A/Japan/305/1957 (H2N2) virus.

Specificity: The antibody recognizes the conserved heterosubtypic epitope in the stem of influenza A virus hemagglutinin. The epitope consists of residues from the N- and C-terminal regions of HA1 (38, 40 to 42, 289 to 293, and 318) and the N-terminal portion of HA2 (18 to 21, 38, 41, 42, 45, 49, 52, 53, 56), including helix A. The antibody neutralizes influenza viruses from the H1a clade but has little neutralizing activity against the H1b clade. The antibody binds HA proteins from A/Puerto Rico/8/1934(H1N1), and A/Japan/305/1957(H2N2), A/flat-faced bat/Peru/033/2010(H18N1) virus, A/duck/Alberta/345/1976(H1N1), A/USSR/90/1977(H1N1), A/Beijing/262/1995(H1N1), A/Solomon Islands/3/2006(H1N1), A/Adachi/2/1957(H2N2), A/Vietnam/1203/2004(H5N1), and A/turkey/Massachusetts/3740/1965(H6N2) viruses. It fails to bind to A/Victoria/3/1975(H3N2) and A/fowlplague/Bratislava/1979(H7N7), A/little yellow-shouldered bat/Guatemala/164/2009(H17N10) virus, A/duck/Alberta/60/1976(H12N5), A/gull/Maryland/704/1977(H13N6), A/black-headed gull/Sweden/4/1999(H16N3), A/duck/Ukraine/1/1963(H3N8), A/Hong Kong/1/1968(H3N2), A/duck/Czechoslovakia/1956(H4N6), A/Netherlands/219/2003(H7N7), A/chicken/Germany/N/1949(H10N7), A/mallard/Astrakhan/263/1982(H14N5), or A/shearwater/W. Australia/2576/1979(H15N9) viruses.

Application Notes: In ELISAs, the Fab fragment was found to bind to recombinant HA protein. The Fab fragment neutralized viruses of the H1, H2, H5, and H6 subtypes at half-maximal inhibitory concentrations in the ug/ml range. Passive immunization with the Fab fragment protected mice from a lethal challenge with A/Puerto Rico/8/1934(H1N1) virus. The crystal structure of the antibody in complex with HA from a pandemic H1N1 influenza virus was determined.

Antibody First Published in: Wyrzucki et al. Alternative Recognition of the Conserved Stem Epitope in

Influenza A Virus Hemagglutinin by a VH3-30-Encoded Heterosubtypic Antibody. J Virol. 2014 Jun; 88(12): 7083–7092. [PMID:24719426](#)

Note on publication: The paper describes the generation and characterization of this antibody.

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.