

Anti-HA [5J8] Bulk Size Ab03161-1.1-BT

This chimeric mouse antibody was made using the variable domain sequences of the original Human IgG1 format for improved compatibility with existing reagents assays and techniques.

Isotype and Format: Mouse IgG1, Lambda

Clone Number: 5J8

Alternative Name(s) of Target: Hemagglutinin

UniProt Accession Number of Target Protein: G8XMJ2

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

Published Species Reactivity: H1N1 Influenza A virus

Immunogen: The original antibody was isolated from the peripheral blood mononuclear cells of a healthy 47-year-old human subject.

Specificity: This antibody is specific for the H1N1 influenza virus hemagglutinin protein. It recognizes a conserved non-linear epitope (residues 133, 137 and 222) on the globular head of H1N1 HA between the receptor-binding pocket and the Ca² antigenic site. The antibody inhibits all tested H1N1 influenza strains from 1918 to 1977 (A/South Carolina/1/1918, A/swine/Iowa/15/1930, A/Weiss/1943, A/L3/1947, A/New Jersey/11/1976, A/USSR/92/1977) and the pandemic 2009 virus but not the seasonal H1N1 strains from 1999 or 2007.

Application Notes: The crystal structure of the Fab fragment in complex with a bacterially expressed and refolded globular head domain from the hemagglutinin was determined (Hong et al., 2013; PMID: 24027321). The antibody was inhibitory in a hemagglutination inhibition activity against H1N1pdm2009-like virus. Neutralization capacity of the antibody was proved by an MN-assay. The specificity of the antibody to the monomeric head as to the full HA-trimer was confirmed by ELISA (Aartse et al., 2021; PMID: 34358138).

Antibody First Published in: Krause et al. A broadly neutralizing human monoclonal antibody that recognizes a conserved, novel epitope on the globular head of the influenza H1N1 virus hemagglutinin J Virol. 2011 Oct;85(20):10905-8. [PMID:21849447](#)

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