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Anti-Hemagglutinin 5 [H5.3] Standard Size Ab00798-10.3

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

This reformatted human antibody was made using the variable domain sequences of the original Human IgG format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Human IgG1, Fc Silent™, Lambda

Clone Number: H5.3

Alternative Name(s) of Target: H5 HA

UniProt Accession Number of Target Protein: Q5EP31

Published Application(s): neutralize

Published Species Reactivity: Anhui, HK/156, Indo), Influenza virus H5N1 (VN/1203

Immunogen: H5.3 was generated from hybridomas created by fusing PBMCs (peripheral blood mononuclear cells) from human donors who had been previously received an A/Vietnam/1203/2004 H5N1 subunit vaccine with myeloma cells. The hybridoma cells were screened for those showing binding affinity for H5 HA.

Specificity: H5.3 binds to H5 at the head domain at an epitope which involves the 190 loop. The epitope was determined to be LGVSSA (aa 134-139) and YQGKSS (aa 142-147) of the head domain by DXMS (deuterium exchange mass spectrometry). This antibody shows reactivity with the wild-type H5N1 field strains VN/1203 (EC50 ~ 17 ng/ml), HK/156 (EC50 ~ 18 ng/ml), Anhui (EC50 ~ 2.8 µg/ml) and Indo (EC50 ~ 10 µg/ml). HA is a viral glycoprotein initially assembled as a trimer on the viral envelope as the preprotein HA0. It is subsequently cleaved by host proteases.

Application Notes: H5.3 binds to H5 where it is able to block the receptor binding site on HA by inserting its CDR3 into the site (IC50 ~ 20 ng/ml). H5.3 can neutralize wild-type VN/1203, rdt VN/1203 K and VN/1203 F pseudovirions, all with IC50s of 5 ng/ml. This antibody also has potent HI (hemagglutination inhibition) activity (80 ng/ml).

Antibody First Published in: Thornburg et al. Human antibodies that neutralize respiratory droplet transmissible H5N1 influenza viruses. J Clin Invest. 2013 Oct;123(10):4405-9. PMID:23999429

Note on publication: Describes the generation of anti-H5 HA antibodies. Their binding and neutralizing activities were studied in vitro. The structure of H5.3 was determined by x-ray crystallography and a low-resolution structure of H5.3 complexed with VN/1203 HA trimer was determined by EM.

Product Form

Size: 200 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.