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Anti-Hemagglutinin 5 [H5.3] Standard Size Ab00798-10.0

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, 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.