Anti-hemagglutinin H3 [1664] Standard Size Ab02716-10.0

Isotype and Format: Human IgG1, Lambda
Clone Number: 1664
Alternative Name(s) of Target: H3; haemagglutinin H3; H3-specific; #1664
UniProt Accession Number of Target Protein:
Published Application(s): functional assay, ELISA, FC
Published Species Reactivity: Influenza A virus
Immunogen: This antibody was raised by sequencing DNA from PMBCs from humans immunized with the split-virion (IIV) quadrivalent seasonal influenza vaccine Fluzone in 2016-2017.
Specificity: This antibody is specific for the hemagglutinin protein of influenza. Hemagglutinin is a homotrimeric glycoprotein found on the surface of influenza viruses and is integral to its infectivity.
Application Notes: ELISA on recombinant hemagglutinnin has proven the specificity of the human version of this antibody. Further, hemagglutination inhibition assays (HAIs) were also performed to measure functional antibodies capable of inhibiting virus agglutination. For this assay the human antibody was mixed with the influenza virus to which erythrocytes were added. Then, the HAI titer was determined by the reciprocal dilution of the last well that contained non-agglutinated RBCs. Finally, human PBMCs were stained for flow cytometry using the human version of this antibody (Forgacs et al, 2021; pmid:33617543).
Antibody First Published in: Forgacs et al. Convergent antibody evolution and clonotype expansion following influenza virus vaccination PLoS One. 2021; 16(2): e0247253. PMID:33617543
Note on publication: PBMCs were collected from 17 human participants vaccinated with the split-inactivated influenza virus vaccine during the 2016–2017 influenza season. A combination of Immune Repertoire Capture (IRCTM) technology and IgG sequencing was performed on ~7,800 plasmablast (PB) cells and preferential IgG heavy-light chain pairings were investigated.

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^{o}C for up to 3 months. For longer storage, aliquot and store at -20^{o}C.
Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic

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procedures for humans or animals.

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