

## Anti-influenza [T1-3B] Standard Size Ab01106-2.3

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

This 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 IgG2a, [Fc Silent™](#), Kappa

**Clone Number:** T1-3B

**Alternative Name(s) of Target:** Influenza H5; Influenza NP-A; Influenza A virus hemagglutinin glycoprotein; Influenza A virus HA; HA; hemagglutinin

**UniProt Accession Number of Target Protein:** P09345

**Published Application(s):** hemagglutination inhibition test, microneutralization assays, virus titration, ELISA, IF

**Published Species Reactivity:** Influenza A virus hemagglutinin glycoprotein (HA)

**Immunogen:** This human antibody is a transmembrane form of IgG1 converted from those isolated from single B cells.

**Specificity:** This antibody reacts with the stem (VH 1-69\*01) of H5 hemagglutinin glycoprotein (HA).

Haemagglutinin is an antigenic glycoprotein which allows viral attachment and entry into the cell. Sixteen subtypes of haemagglutinin (H1-H16) have been described, of which H1, H2 and H3 infect humans. H5 and H7 normally result in avian disease, with some highly pathogenic H5N1 strains causing 100% mortality in poultry. H5N1 has in some cases mutated to infect humans, with 60% mortality. Haemagglutinin H5 is from the Influenza A virus H5N1. Influenza A belongs to the Orthomyxoviridae family, and is a negative sense single-stranded RNA virus which results in respiratory disease. Haemagglutinin is one of the most medically relevant antigens on influenza as it is a target for antiviral drugs and antibodies.

**Application Notes:** In the original study, this antibody was used in conjunction with other mAbs (e.g. N2B10 mAb specific for the head of seasonal H3 HA; T2-9A mAb specific for the head of H1N1pdm09) for enzyme-linked immunosorbent, indirect immunofluorescent, virus titration, hemagglutination inhibition (HAI), and microneutralization (MN) assays to show that assessing antigenic relatedness of evolving influenza viruses with panels of defined, renewable, and human monoclonal antibodies could be a very useful adjunct to ferret antisera in detection of antigenic drift and in the selection of viruses for inclusion in influenza vaccines (Huang et al., 2015).

**Antibody First Published in:** Huang et al. Focused antibody response to influenza linked to antigenic

drift. J Clin Invest. 2015 Jul 1;125(7):2631-45. [PMID:26011643](#)

**Note on publication:** Describe the original generation of this antibody and its potential use as an adjunct to ferret antisera in detection of antigenic drift and in the selection of viruses for inclusion in influenza vaccines.

## 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.