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Anti-HA Epitope Monoclonal Antibody MEDI8852

National Cancer Institute

Source

National Cancer Institute. *Anti-HA Epitope Monoclonal Antibody MEDI8852*. NCI Thesaurus. Code C131295.

A human immunoglobulin (Ig) G1 kappa monoclonal antibody (mAb) targeting a unique epitope in the stalk of the influenza A hemagglutinin (HA) protein, with broad influenza A virus neutralization activity. MEDI8852 was derived from an antibody isolated from human memory B-cells from patients previously infected with influenza caused by type A strains that was further optimized to increase neutralization potential. Upon infusion, MEDI8852 targets and binds to a region within the stalk of the HA protein that is highly conserved amongst all influenza A virus subtypes. This neutralizes and prevents essential steps of the viral lifecycle, thereby blocking infectivity of all influenza A virus subtypes. HA, a glycoprotein found on the surface of the influenza virus, plays a key role in viral attachment and cell entry.