



Mouse Anti-IAV H1N1 Hemagglutinin CA/09 monoclonal antibody, clone 4C7 (CABT-CS317)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Specificity	Specificity to CA/09
Target	IAV H1N1 CA/09
Immunogen	recombinant A/California/07/2009 (CA/09)
Isotype	IgG2a, kappa
Source/Host	Mouse
Species Reactivity	IAV H1N1
Clone	3C7
Purification	Protein G purified
Conjugate	unconjugated
Applications	ELISA, WB, HAI assay, BLI
Epitope	linear
Format	Liquid
Concentration	1mg/ml
Size	100 µg
Buffer	PBS, 0.05% (w/v) Sodium Azide
Storage	-20°C

BACKGROUND

Introduction	Influenza virus contains two major surface glycoproteins, haemagglutinin (HA) and neuraminidase (NA), that dictate how the subtypes are categorized (depending on the type of H or N antigens they express with metabolic synergy). There are 11 and 18 different hemagglutinin and neuraminidase subtypes, respectively. Amino acid substitutions (mutations) in these two proteins result in variations among the circulating seasonal strains and allow for the virus to evade host immunity. This may pose a challenge for long-lasting immunity and vaccines efficacy. Computationally Optimized Broadly Reactive Antigens is a strategy, termed COBRA, where synthetic HA antigens are generated to elicit protective antibodies against a broad spectrum of influenza viruses compared with antibodies elicited by a wild-type, strain-based vaccine. Influenza A H1N1 is a subclass of the Influenza A virus, and it is the only one (out of the influenza virus group) with the ability to cause flu pandemics, in addition to the seasonal epidemics. A/California/07/2009 is a Influenza A H1N1 virus strain.
Keywords	IAV H1N1 CA/09; Influenza A H1N1, Hemagglutinin CA/09; IAV; H1N1; IAV H1N1; Influenza A H1N1; Influenza A Virus; CA/09