Recombinant Influenza A virus (A/Hong Kong/483/1997(H5N1)) HA Protein, His-tagged

Cat. No. HA-768I **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Influenza A virus (A/Hong Kong/483/1997(H5N1)) HA protein with His tag was expressed in HEK293.
Species	Influenza A virus (A/Hong Kong/483/1997(H5N1))
Source	HEK293
ProteinLength	568
Description	Influenza A virus is a major public health threat. Novel influenza virus strains caused by genetic drift and viral recombination emerge periodically to which humans have little or no immunity, resulting in devastating pandemics. Influenza A can exist in a variety of animals; however it is in birds that all subtypes can be found. These subtypes are classified based on the combination of the virus coat glycoproteins hemagglutinin (HA) and neuraminidase (NA) subtypes. During 1997, an H5N1 avian influenza virus was determined to be the cause of death in 6 of 18 infected patients in Hong Kong. There was some evidence of human to human spread of this virus, but it is thought that the transmission efficiency was fairly low. HA interacts with cell surface proteins containing oligosaccharides with terminal sialyl residues. Virus isolated from a human infected with the H5N1 strain in 1997 could bind to oligosaccharides from human as well as avian sources, indicating its species jumping ability. Influenza A Virus Hemagglutinin antibodies recognize the influenza hemagglutinin epitope, which has been used extensively as a general epitope tag in expression vectors. The

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	extreme specificity of this antibody allows for unambiguous identification and quantitative analysis of the tagged protein.
Form	Lyophilized
Molecular Mass	60.3 kDa
AA Sequence	MEKIVLLLATVSLVKSDQICIGYHANNSTEQVDTIMEKNVTVTHAQDILERTHNGKLC DLNGVKPLILRDCSVAGWLLGNPMCDEFINVPEWSYIVEKASPANDLCYPGNFNDY EELKHLLSRISHFEKIQIIPKSSWSNHDASSGVSSACPYLGKSSFFRNVVWLIKKNST YPTIKRSYNNTNQEDLLVLWGIHHPNDAAEQTKLYQNPTTYISVGTSTLNQRLVPEIA TRPKVNGQSGRIEFFWTILKPNDAINFESNGNFIAPEYAYKIVKKGDSTIMKSELEYG NCNTKCQTPMGAINSSMPFHNIHPLTIGECPKYVKSNRLVLATGLRNAPQRERRRKK RGLFGAIAGFIEGGWQGMVDGWYGYHHSNEQGSGYAADQESTQKAIDGVTNKVN SIINKMNTQFEAVGREFNNLERRIENLNKKMEDGFLDVWTYNAELLVLMENERTLDF HDSNVKNLYDKVRLQLRDNAKELGNGCFEFYHKCDNECMESVKNGTYDYPQYSEE ARLNREEISGVKLESMGTYQILSLYSTVASSLALAIMVAGLSLWMCSNGSLQCRICI
Purity	> 98%
Applications	WB; ELISA; FACS; FC
Stability	This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term). After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18 centigrade for future use.
Storage	At -20 centigrade.
Concentration	1 mg/mL

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Storage Buffer	PBS (pH 7.4-7.5). Sterile-filtered colorless solution.
Reconstitution	Reconstitute in sterile distilled H2O to no less than 100 μg/mL; dilute reconstituted stock further in other aqueous solutions if needed. Please review COA for lot-specific instructions. Final measurements should be determined by the end-user for optimal performance.

GENE INFORMATION

Official Symbol	HA
Synonyms	H5; HA; Hemagglutinin

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