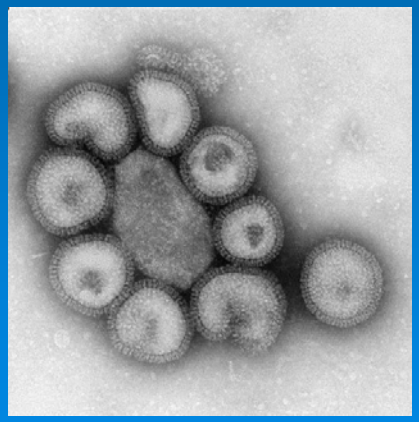
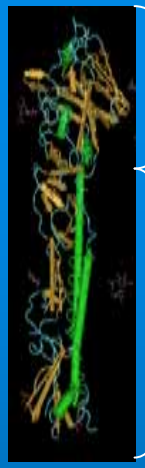
Broadly Protective Anti-Influenza Antibodies

Influenza virus changes by mutation and recombination and is able to elude vaccine strategies and anti-viral drugs.

We have discovered an antibody that attacks a site that is remarkably unchanged in influenza viruses across time. As a result, our antibody is able to prevent and treat infection across H5N1 and H1N1 sub-types, covering 2/3 of the major influenza threats to humans.



Influenza virus



Variable “head” domain

Highly conserved “stem” domain needed for infection and proliferation is blocked by Sea Lane antibody.

H5N1 HA protein

Anti-Influenza Antibody Activity

Influenza virus strains neutralized by Sea Lane Biotechnologies antibodies:

Flu Type	Sub-type	Strain	mAb A06	mAb B11
Avian Influenza	Clade 0	Hong Kong 1997		√
	Clade1	Vietnam/1203/04	√	√
	Clade 2.1	Indonesia/5/05	√	Not active
	Clade 2.2	Turkey/65596/06	√	√
		Egypt/06	√	√
Seasonal Influenza	H1N1	New Caledonia/20/99	√	Not active
		Texas/91	√	
		Virginia/87	√	
		Solomon Islands/3/06	√	
	H3N2	Hong Kong/68	Not active	Not active