

**Monoclonal Antibody Panel,
Anti-Influenza A Virus H5 Hemagglutinin,
A/Vietnam/1203/2004 (H5N1)**

Catalog No. NR-4286

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Contributor:

BEI Resources

Manufacturer:

St. Jude Children's Research Hospital (CEIRS)

Product Description:

Mouse monoclonal antibodies specific to a recombinant form of the H5 hemagglutinin (HA) protein (GenPept: AAT73274) of the A/Vietnam/1203/2004 (H5N1) strain of influenza A virus were produced in mouse ascites.^{1,2} Ascites formation was induced by injecting cultured hybridoma cells into the peritoneal cavity of BALB/c mice that had been primed with incomplete Freund's adjuvant.³ Antibody-rich ascites fluid was aseptically harvested 1 to 2 weeks following hybridoma cell injection. The harvested ascites fluid was pooled and then clarified using centrifugation and filtration. Sodium azide (0.02%) and gentamycin (0.01%) were added to the pooled ascites fluid prior to vialing and lyophilization.

The monoclonal antibody panel, NR-4286, consists of the following six monoclonal antibodies:

BEI Resources #	Name	Antibody Class
NR-2728	VN04-2	IgG2ak
NR-2731	VN04-8	IgG1k
NR-2734	VN04-9	IgG2ak
NR-2737	VN04-10	IgG2bk
NR-2740	VN04-13	IgG2ak
NR-2743	VN04-16	IgG2ak

Material Provided:

Each vial contains lyophilized (0.2 mL containing 0.02% sodium azide and 0.01% gentamycin) mouse ascites fluid.

Packaging/Storage:

This product was packaged in glass serum vials with an aluminum crimp seal. The product is provided frozen and should be stored at -20°C to -40°C immediately upon arrival. **Storage at warmer temperatures is not recommended due to a low bioburden.** At colder temperatures, the rubber stopper may become brittle and compromise the seal. **Each vial should be reconstituted with 0.2 mL of sterile distilled water.** Reconstituted material should be stored at -20°C to -40°C. Reconstituted material may be thawed at room temperature and should be re-frozen.

Functional Activity:

All six monoclonal antibodies are specific for the H5 HA subtype of the influenza A virus as determined in standard hemagglutination inhibition (HI) assays. All six monoclonal antibodies demonstrate high reactivity within the H5 HA subtype of recent Asian isolates of influenza A virus based on HI assays.

Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories. 5th ed. Washington, DC: U.S. Government Printing Office, 2009; see www.cdc.gov/biosafety/publications/bmb15/index.htm.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Monoclonal Antibody Panel, Anti-Influenza A Virus H5 Hemagglutinin, A/Vietnam/1203/2004 (H5N1), NR-4286."

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References:

1. Guan, Y., et al. "H5N1 Influenza: A Protean Pandemic Threat." *Proc. Natl. Acad. Sci. U.S.A.* 101 (2004): 8156–8161. PubMed: 15148370.
2. Li, K. S., et al. "Genesis of a Highly Pathogenic and Potentially Pandemic H5N1 Influenza Virus in Eastern Asia." *Nature* 430 (2004): 209–213. PubMed: 15241415. GenPept: AAT73274.
3. Mueller, U. W., C. S. Hawes, and W. R. Jones. "Monoclonal Antibody Production by Hybridoma Growth in Freund's Adjuvant Primed Mice." *J. Immunol. Methods* 87 (1986): 193–196. PubMed: 3950429.

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