COSMO BIO CO., LTD.
Inspiration for Life Science

MONOCLONAL ANTIBODY

For research use only, Not for diagnostic use.

Catalog No. KAST-MA001, KAST-MA003

Anti PB2 [Clone# 3-1.6]

Background：

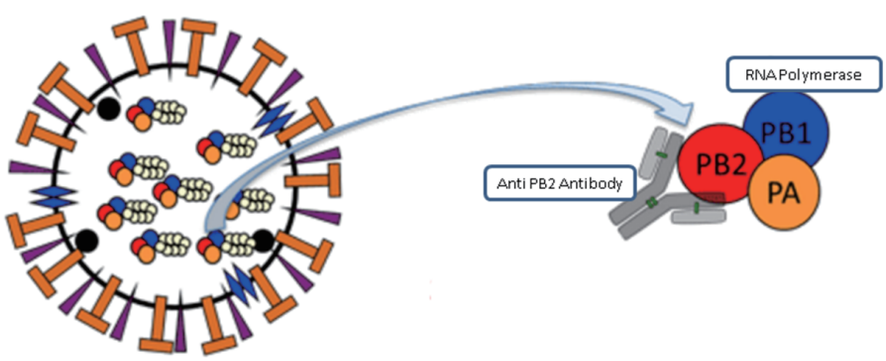
There was a need for a novel monoclonal antibody against RNA-dependent RNA polymerase of influenza virus that does not neutralize influenza virus when binding its antigen.

Anti PB2 (clone# 3-1.6) is a monoclonal antibody that binds to the type A influenza virus PB2 subunit of RNA-dependent RNA polymerase by antigen-antibody reaction but does not neutralize it. Anti PB2 (clone# 3-1.6) is not only useful to confirm the expression of the RNA-dependent RNA polymerase but also useful tool for molecular biology study of influenza virus those are harmful to human (e.g. H1N1, H3N2, etc.), and for developing anti-influenza virus agents, since it does not interfere with the growth of influenza virus. Anti PB2 (clone# 3-1.6) also binds with PB2 subunit of avian influenza virus.

Applications:	Western Blotting (1:1,000), Immunoprecipitation and Ultracentrifugation analysis
Specificity:	RNA polymerase PB2 subunit of type A influenza virus
Immunogen:	recombinant RNA polymerase PB2 subunit of H1N1 (a.a. 530-759)
Host:	Mouse
Reactivity:	Binds with RNA polymerase PB2 subunit of type A influenza virus of human and avian
Clonality:	Monoclonal（clone# 3-1.6）
Subclass:	IgG1
Purification method:	Purified from cell culture medium by affinity column (Protein G)
Form:	Liquid (PBS), no preservatives added
Volume:	50 ug (KAST-MA003), 100 ug (KAST-MA001)
Concentration:	1 mg/mL
Storage condition:	-20℃

References:

1: Monoclonal Antibodies Against PB2 Subunit Of RNA-Dependent RNA Polymerase Of Influenza Virus (JP 2015-189715 A 2015.11.2).



Depiction of Anti PB2 (clone# 3-1.6) and RNA Polymerase interaction.

* Anti PB2 (3-1.6) was generated & licensed under research collaboration of Kanagawa Academy Of Science And Technology, Shimane Univ. and Yokohama City Univ.

Example Assay Data:

1. Western Blotting

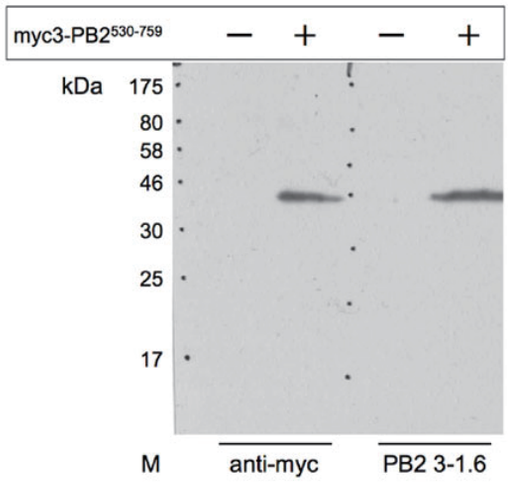


Figure 1. Western Blotting result

Loaded 10 ug/lane

Primary Antibody (anti c-Myc (clone# 9e10), anti PB2 (clone# 3-1.6)), 1:1,000 dilution (1 ug/mL)

Secondary Antibody (Anti IgG (H&L), Mouse (Goat)-HRP, Rockland Immunochemicals, Cat.No. 710-1332), 1:2,000 dilution

2. Ultracentrifugation Analysis

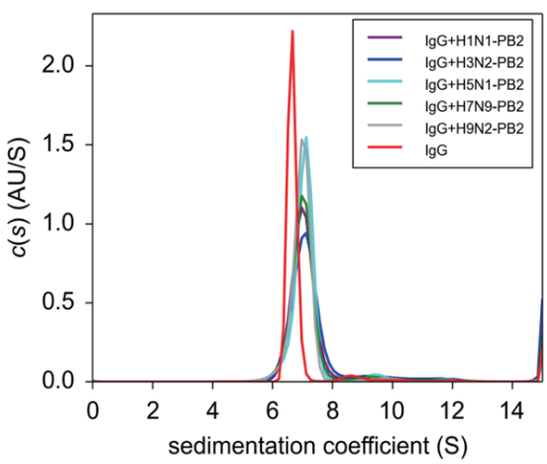


Figure 2. Ultracentrifugation analysis of IgG,
PB2 (H1N1, H3N2, H5N1, H7N9, H9N2) + IgG

x axis represents sedimentation coefficient, y axis represents sedimentation distribution function. In general, larger the molecule, higher the sedimentation coefficient. As seen from Figure 2, PB2 (H1N1, H3N2, H5N1, H7N9, H9N2) and IgG binds to form a larger molecule, indicating anti PB2 antibody (clone# 3-1.6) binds well with PB2.

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