

**Product Name: Anti-Phosphoprotein Polyclonal Antibody****Catalog #: APRab60135**

For research use only.

**Summary**

|                      |                                                                             |
|----------------------|-----------------------------------------------------------------------------|
| <b>Description</b>   | Rabbit polyclonal Antibody                                                  |
| <b>Host</b>          | Rabbit                                                                      |
| <b>Application</b>   | ELISA, IHC, WB                                                              |
| <b>Reactivity</b>    | Nipah virus, Hendra virus                                                   |
| <b>Conjugation</b>   | Unconjugated                                                                |
| <b>Modification</b>  | Unmodified                                                                  |
| <b>Isotype</b>       | IgG                                                                         |
| <b>Clonality</b>     | Polyclonal                                                                  |
| <b>Form</b>          | Liquid                                                                      |
| <b>Concentration</b> |                                                                             |
| <b>Storage</b>       | Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles. |
| <b>Shipping</b>      | Ice bags                                                                    |
| <b>Buffer</b>        | 0.01M PBS, pH 7.4, 50% Glycerol, 0.05% Proclin 300.                         |
| <b>Purification</b>  | Purified by antigen affinity column.                                        |

**Application**

**Dilution Ratio** ELISA 1:5000-1:20000 IHC 1:50-1:500 WB 1:500-1:2000

**Molecular Weight**

**Antigen Information**

|                          |                                                                           |
|--------------------------|---------------------------------------------------------------------------|
| <b>Gene Name</b>         | P phosphoprotein                                                          |
| <b>Alternative Names</b> | P phosphoprotein, partial; P/V/W/C                                        |
| <b>Gene ID</b>           |                                                                           |
| <b>SwissProt ID</b>      | O55778, Q9IK91                                                            |
| <b>Immunogen</b>         | E. coli - derived recombinant nipah virus Phosphoprotein (Asp471-Gly580). |

**Background**

Nipah virus (NiV), a highly pathogenic zoonotic paramyxovirus, mediates host cell entry through the coordinated action of two envelope glycoproteins: the attachment glycoprotein (G), which engages the host cell receptors ephrin-B2 and ephrin-B3, and the fusion glycoprotein (F), which drives membrane fusion following receptor binding. These viral surface proteins, along with

the viral RNA-dependent RNA polymerase (RdRp) complex comprising the nucleoprotein (N), phosphoprotein (P), and large polymerase protein (L), constitute the primary molecular targets for therapeutic intervention and vaccine development. The conserved receptor-binding interface of the G protein and the fusion machinery of the F protein represent particularly attractive targets for neutralizing antibodies and entry inhibitors, while the viral replication machinery offers potential targets for broad-spectrum antiviral compounds targeting paramyxovirus transcription and replication.

## Research Area

Microbiology&Infectious Disease