

For Research Use Only

# INPP5A Recombinant antibody

Catalog Number: 86001-1-RR



## Basic Information

|                                                                |                                                                  |                                                       |
|----------------------------------------------------------------|------------------------------------------------------------------|-------------------------------------------------------|
| <b>Catalog Number:</b><br>86001-1-RR                           | <b>GenBank Accession Number:</b><br>BC096280                     | <b>Purification Method:</b><br>Protein A purification |
| <b>Size:</b><br>100ul , Concentration: 1000 µg/ml by Nanodrop; | <b>GeneID (NCBI):</b><br>3632                                    | <b>CloneNo.:</b><br>250584C3                          |
| <b>Source:</b><br>Rabbit                                       | <b>UNIPROT ID:</b><br>Q14642                                     | <b>Recommended Dilutions:</b><br>WB: 1:2000-1:10000   |
| <b>Isotype:</b><br>IgG                                         | <b>Full Name:</b><br>inositol polyphosphate-5-phosphatase, 40kDa |                                                       |
| <b>Immunogen Catalog Number:</b><br>AG16380                    | <b>Calculated MW:</b><br>412 aa, 48 kDa                          |                                                       |

## Applications

|                                          |                                                                        |
|------------------------------------------|------------------------------------------------------------------------|
| <b>Tested Applications:</b><br>WB, ELISA | <b>Positive Controls:</b><br>WB : HeLa cells, fetal human brain tissue |
| <b>Species Specificity:</b><br>human     |                                                                        |

## Background Information

INPP5A (Inositol Polyphosphate-5-Phosphatase A) is a membrane-bound type I inositol 1,4,5-trisphosphate 5-phosphatase that is involved in the mobilization of intracellular calcium ions and the regulation of cellular responses to stimuli. It terminates calcium signaling by hydrolyzing inositol 1,4,5-trisphosphate (InsP3) and inositol 1,3,4,5-tetrakisphosphate (InsP4). INPP5A plays important roles in various cellular processes, including cell proliferation, apoptosis, vesicular transport, and insulin signaling. Additionally, INPP5A is crucial for the survival of cerebellar Purkinje cells. In certain cancers, such as cutaneous squamous cell carcinoma (cSCC) and esophageal squamous cell carcinoma (ESCC), the expression levels of INPP5A are closely related to disease progression and prognosis.

## Storage

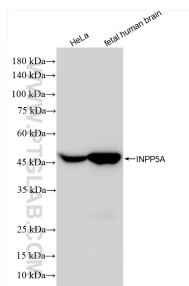
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

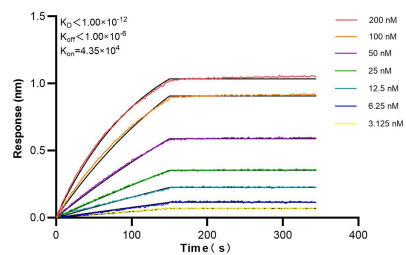
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 86001-1-RR (INPP5A antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 86001-1-RR against Human INPP5A were performed. The affinity constant is below 1 pM.