

# PDE6D Monoclonal antibody

Catalog Number: 67565-1-Ig

## Basic Information

**Catalog Number:**

67565-1-Ig

**Concentration:**

2000 ug/ml

**Source:**

Mouse

**Isotype:**

IgG1

**Immunogen Catalog Number:**

AG29563

**GenBank Accession Number:**

NM\_002601

**GeneID (NCBI):**

5147

**UNIPROT ID:**

O43924

**Full Name:**phosphodiesterase 6D, cGMP-specific,  
rod, delta**Calculated MW:**

17 KDa

**Observed MW:**

15-17 kDa

**Purification Method:**

Protein G purification

**CloneNo.:**

1H4B6

**Recommended Dilutions:**

WB 1:1000-1:4000

IHC 1:250-1:1000

## Applications

**Tested Applications:**

WB, IHC, ELISA

**Species Specificity:**

human, mouse, rat, pig

**Note-IHC: suggested antigen retrieval with  
TE buffer pH 9.0; (\*) Alternatively, antigen  
retrieval may be performed with citrate  
buffer pH 6.0**

**Positive Controls:**

**WB:** Jurkat cells, HeLa cells, HepG2 cells, human  
placenta tissue, rat retina tissue, mouse brain tissue,  
JAR cells, Pig brain tissue, Rat brain tissue

**IHC:** mouse brain tissue, rat brain tissue, rat stomach  
tissue

## Background Information

PDE6D, also known as PDED, belongs to the PDE6D/unc-119 family. PDE6D is a ubiquitously expressed prenyl-binding protein. By binding to prenyl moieties, PDE6D mediates the shuttling of prenylated proteins between membranes. Thereby, it regulates the membrane association of Ras and Rap GTPases (PMID: 36672247). In addition, research has shown that PDE6D is overexpressed in liver cancer and correlated with tumor stages, grading, and ERK activation (PMID: 30901922). The calculated molecular weight of PDE6D is 17 kDa.

## Storage

**Storage:**

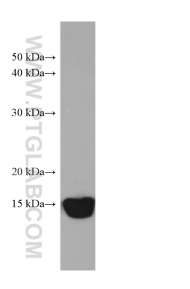
Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

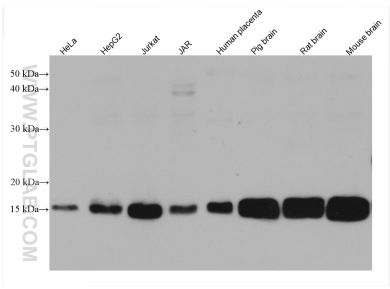
PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

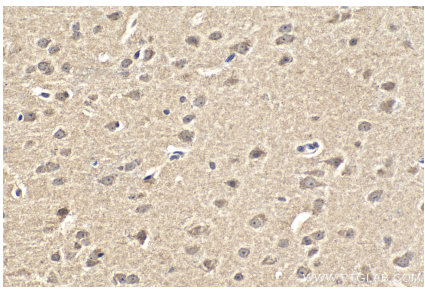
## Selected Validation Data



Jurkat cells were subjected to SDS PAGE followed by western blot with 67565-1-Ig (PDE6D antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 67565-1-Ig (PDE6D antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 67565-1-Ig (PDE6D antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).