

Datasheet for ABIN630695  
**anti-GAPVD1 antibody (N-Term)**



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3 Images

## Overview

Quantity:	100 µL
Target:	GAPVD1
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat, Dog
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GAPVD1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

## Product Details

Immunogen:	GAPVD1 antibody was raised using the N terminal of GAPVD1 corresponding to a region with amino acids FKLFSSEGLFSAKLFLTATLHEPIMQLLVEDEDHLETDPNKLIERFSPSQ
Specificity:	GAPVD1 antibody was raised against the N terminal of GAPVD1
Purification:	Affinity purified

## Target Details

Target:	GAPVD1
Alternative Name:	GAPVD1 ( <a href="#">GAPVD1 Products</a> )
Background:	GAPVD1 acts both as a GTPase-activating protein (GAP) and a guanine nucleotide exchange factor (GEF), and participates in various processes such as endocytosis, insulin receptor internalization or LC2A4/GLUT4 trafficking. It acts as a GEF for the Ras-related protein RAB31

## Target Details

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by exchanging bound GDP for free GTP, leading to regulate LC2A4/GLUT4 trafficking. In the absence of insulin, it maintains RAB31 in an active state and promotes a futile cycle between LC2A4/GLUT4 storage vesicles and early endosomes, retaining LC2A4/GLUT4 inside the cells. Upon insulin stimulation, it is translocated to the plasma membrane, releasing LC2A4/GLUT4 from intracellular storage vesicles. It is also involved in EGFR trafficking and degradation, possibly by promoting EGFR ubiquitination and subsequent degradation by the proteasome. It has GEF activity for Rab5 and GAP activity for Ras.

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Molecular Weight: 166 kDa (MW of target protein)

## Application Details

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Application Notes: WB: 0.25 µg/mL, IHC: 4-8 µg/mL  
Optimal conditions should be determined by the investigator.

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Comment: GAPVD1 Blocking Peptide, catalog no. 33R-2950, is also available for use as a blocking control in assays to test for specificity of this GAPVD1 antibody

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Restrictions: For Research Use only

## Handling

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Format: Lyophilized

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Reconstitution: Lyophilized powder. Add distilled water for a 1 mg/mL concentration of GAPVD1 antibody in PBS

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Concentration: Lot specific

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Buffer: PBS

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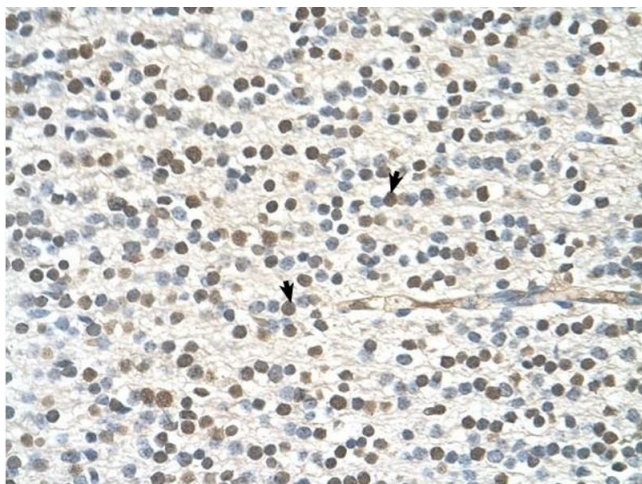
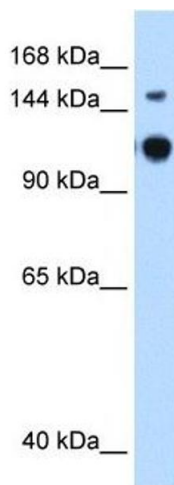
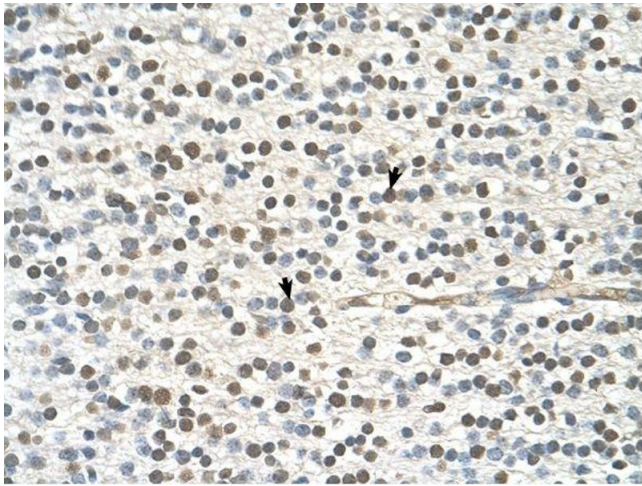
Handling Advice: Avoid repeated freeze/thaw cycles.  
Dilute only prior to immediate use.

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Storage: 4 °C/-20 °C

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Storage Comment: Store at 2-8 °C for short periods. For longer periods of storage, store at -20 °C.



### Immunohistochemistry

**Image 1.** GAPVD1 antibody was used for immunohistochemistry at a concentration of 4-8 ug/ml. Magnification is at 400X

### Western Blotting

**Image 2.** GAPVD1 antibody used at 0.25 ug/ml to detect target protein.

### Immunohistochemistry

**Image 3.** GAPVD1 antibody was used for immunohistochemistry at a concentration of 4-8 ug/ml to stain Neural cells (arrows) in Human Brain. Magnification is at 400X