

Datasheet for ABIN2775423
anti-GAPVD1 antibody (N-Term)

3 Images

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Overview

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

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human GAPVD1
Sequence:	FKLFSEGLFS AKLFLTATLH EPIMQLLVED EDHLETDPNK LIERFSPSQQ
Predicted Reactivity:	Cow: 100%, Dog: 100%, Guinea Pig: 100%, Horse: 100%, Human: 100%, Mouse: 100%, Rabbit: 100%, Rat: 100%, Zebrafish: 93%
Characteristics:	This is a rabbit polyclonal antibody against GAPVD1. It was validated on Western Blot and immunohistochemistry.
Purification:	Affinity Purified

Target Details

Target:	GAPVD1
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Target Details

Alternative Name:	GAPVD1 (GAPVD1 Products)
Background:	<p>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 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.</p> <p>Alias Symbols: DKFZP434C212, KIAA1521, MGC138847, MGC138848, RAP6, GAPEX5</p> <p>Protein Interaction Partner: UBC, FOXK1, LRRC47, SF3A1, HNRNPR, IQGAP1, CCDC6, NR3C1, YWHAB, COPS2, SIRT7, ELAVL1, VAV2, RAD21, Csnk1e, CBL,</p> <p>Protein Size: 1487</p>
Molecular Weight:	166 kDa
Gene ID:	26130
NCBI Accession:	NM_015635 , NP_056450

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 1487 AA
Restrictions:	For Research Use only

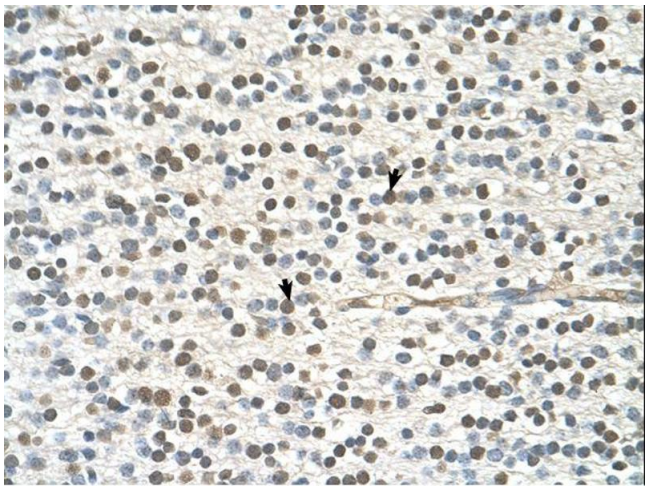
Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

Handling

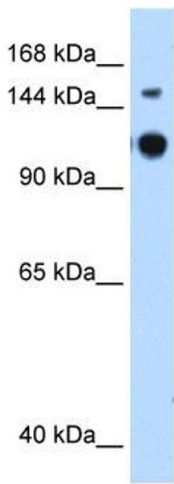
	should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Images



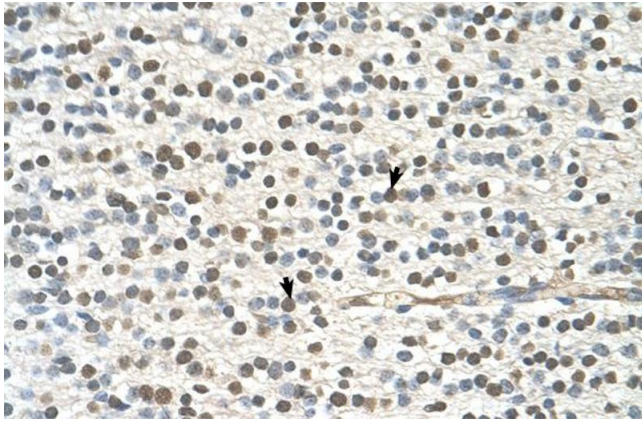
Immunohistochemistry

Image 1.



Western Blotting

Image 2. WB Suggested Anti-GAPVD1 Antibody Titration:
0.25ug/ml Positive Control: HepG2 cell lysate



Immunohistochemistry

Image 3. Human Brain