Datasheet for ABIN650767

anti-PHGDH antibody (AA 249-277)

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Overview

Quantity:	400 µL
Target:	PHGDH
Binding Specificity:	AA 249-277
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PHGDH antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This PHGDH antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 249-277 amino acids from the Central region of human PHGDH.
Clone:	RB20883
Isotype:	Ig Fraction
Predicted Reactivity:	Pr, M, Rat
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	PHGDH

Target Details

Alternative Name:	PHGDH (PHGDH Products)
Background:	3-Phosphoglycerate dehydrogenase (PHGDH, EC 1.1.1.95) catalyzes the transition of 3-phosphoglycerate into 3-phosphohydroxypyruvate, which is the first and rate-limiting step in the phosphorylated pathway of serine biosynthesis, using NAD+/NADH as a cofactor.
Molecular Weight:	56651
Gene ID:	26227
NCBI Accession:	NP_006614
UniProt:	O43175
Pathways:	Metabolism of Steroid Hormones and Vitamin D, Warburg Effect

Application Details

Application Notes:	WB: 1:1000. IHC-P: 1:50~100. FC: 1:10~50
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.
Expiry Date:	6 months

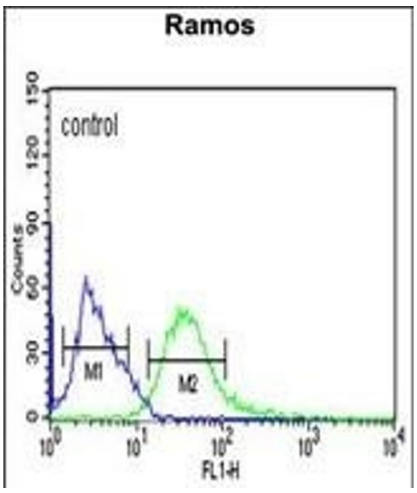
Publications

Product cited in:	Ding, Dellisanti, Ko, Czajkowski, Puglielli: "The endoplasmic reticulum-based acetyltransferases, ATase1 and ATase2, associate with the oligosaccharyltransferase to acetylate correctly folded polypeptides." in: **The Journal of biological chemistry**, Vol. 289, Issue 46, pp. 32044-55, (2014) (PubMed).

Publications

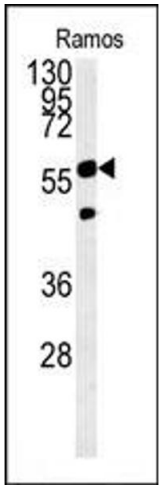
Ding, Ko, Pehar, Kotch, Peters, Luo, Salamat, Puglielli: "Biochemical inhibition of the acetyltransferases ATase1 and ATase2 reduces ?-secretase (BACE1) levels and A? generation." in: **The Journal of biological chemistry**, Vol. 287, Issue 11, pp. 8424-33, (2012) (PubMed).

Images



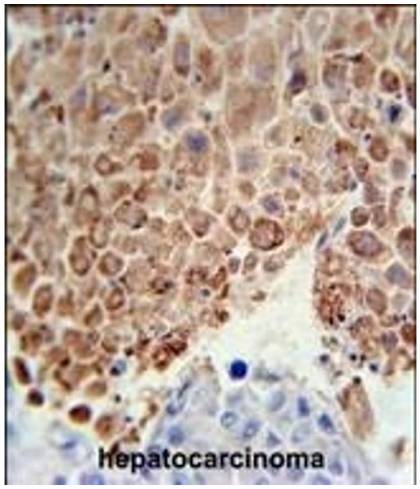
Flow Cytometry

Image 1. PHGDH Antibody (Center) (ABIN650767 and ABIN2839544) flow cytometric analysis of Ramos cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



Western Blotting

Image 2. PHGDH Antibody (Center) (ABIN650767 and ABIN2839544) western blot analysis in Ramos cell line lysates (15 µg/lane).This demonstrates the PHGDH antibody detected the PHGDH protein (arrow).



Immunohistochemistry (Paraffin-embedded Sections)

Image 3. PHGDH Antibody (Center) (ABIN650767 and ABIN2839544) immunohistochemistry analysis in formalin fixed and paraffin embedded human hepatocarcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the PHGDH Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

