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Datasheet for ABIN2786054

anti-Glutaminase antibody (C-Term)

3 Images

1 Publication

Overview

Quantity:	100 µL
Target:	Glutaminase (GLS)
Binding Specificity:	C-Term
Reactivity:	Human, Mouse, Rat, Dog, Guinea Pig, Horse, Rabbit
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Glutaminase antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the c terminal region of human GLS
Sequence:	VNPFKDRWN NTPMDEALHF GHHDVFKILQ EYQVQYTPQG DSDNGKENQT
Predicted Reactivity:	Dog: 86%, Guinea Pig: 100%, Horse: 100%, Human: 100%, Mouse: 86%, Rabbit: 100%, Rat: 93%
Characteristics:	This is a rabbit polyclonal antibody against GLS. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	Glutaminase (GLS)
Alternative Name:	GLS (GLS Products)

Target Details

Background:	Sahai (1983) [PubMed 6825316] demonstrated phosphate-activated glutaminase (EC 3.5.1.2) in human platelets. It is the major enzyme yielding glutamate from glutamine. Significance of the enzyme derives from its possible implication in behavior disturbances Alias Symbols: AAD20, DKFZp686O15119, FLJ10358, GLS1, KIAA0838, GAC, GAM, KGA Protein Interaction Partner: UBC, PEPD, MVD, GNS, MYL12A, GDA, EIF5A, CAPN1, ATF2, ATXN10, CUL5, TAX1BP3, PARD6A, SNTA1, Protein Size: 669
Molecular Weight:	73 kDa
Gene ID:	2744
NCBI Accession:	NM_014905 , NP_055720
UniProt:	O94925
Pathways:	Feeding Behaviour , Dicarboxylic Acid Transport , Warburg Effect

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 669 AA
Restrictions:	For Research Use only

Handling

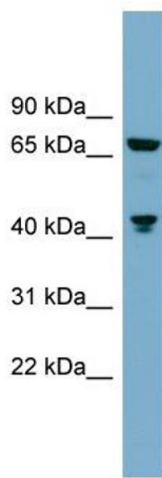
Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained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

Product cited in:

Akter, Mansour, Hyodo, Senga: "FAM98A associates with DDX1-C14orf166-FAM98B in a novel complex involved in colorectal cancer progression." in: **The international journal of biochemistry & cell biology**, Vol. 84, pp. 1-13, (2017) ([PubMed](#)).

Akter, Mansour, Hyodo, Ito, Hamaguchi, Senga: "Erratum to: FAM98A is a novel substrate of PRMT1 required for tumor cell migration, invasion and colony formation." in: **Tumour biology**, Vol. 37, Issue 5, pp. 7001, (2016) ([PubMed](#)).

Images



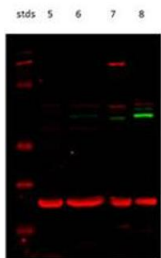
Western Blotting

Image 1. WB Suggested Anti-GLS

Antibody Titration: 0.2-1 µg/mL

Positive Control: ACHN cell lysate

GLS is strongly supported by BioGPS gene expression data to be expressed in Human ACHN cells



GLS (ARP55098_P050)

Western Blot

Lanes 5: rat kidney cortex

Lanes 6: rat kidney proximal tubules prepped from cortex

Lanes 7: LLCPK1-F+ pig kidney proximal tubule tissue culture lysate

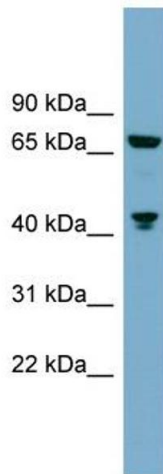
Lanes 8: rat brain supernatant

Application data in forum

Submitted by:
Lynn Taylor
Colorado State University

Western Blotting

Image 2.



Western Blotting

Image 3. WB Suggested Anti-GLS Antibody Titration: 0.2-1 ug/ml

Positive Control: ACHN cell lysate