

Datasheet for ABIN2782464
anti-CTH antibody (C-Term)[Go to Product page](#)

2 Images

1 Publication

Overview

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

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the C terminal region of human CTH
Sequence:	ESNPWVEKVI YPGLPSHPQH ELVKRQCTGC TGMVTFYIKG TLQHAEIFLK
Predicted Reactivity:	Cow: 93%, Dog: 93%, Guinea Pig: 93%, Horse: 93%, Human: 100%, Mouse: 93%, Rabbit: 93%, Rat: 93%, Zebrafish: 93%
Characteristics:	This is a rabbit polyclonal antibody against CTH. It was validated on Western Blot and immunohistochemistry.
Purification:	Protein A purified

Target Details

Target:	CTH
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Target Details

Alternative Name:	CTH (CTH Products)
Background:	<p>CTH is a cytoplasmic enzyme in the trans-sulfuration pathway that converts cystathione derived from methionine into cysteine. Glutathione synthesis in the liver is dependent upon the availability of cysteine. Mutations in its gene cause cystathioninuria. This gene encodes a cytoplasmic enzyme in the trans-sulfuration pathway that converts cystathione derived from methionine into cysteine. Glutathione synthesis in the liver is dependent upon the availability of cysteine. Mutations in this gene cause cystathioninuria. Alternative splicing of this gene results in two transcript variants encoding different isoforms.</p> <p>Alias Symbols: MGC9471</p> <p>Protein Interaction Partner: GUCD1, WDYHV1, RECK, CTH, PTMA, GMDS, CAPN2, ATIC, SDCBP2, UBC, ELAVL1,</p> <p>Protein Size: 405</p>
Molecular Weight:	44 kDa
Gene ID:	1491
NCBI Accession:	NM_001902 , NP_001893
UniProt:	P32929
Pathways:	ER-Nucleus Signaling , Warburg Effect

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 405 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.

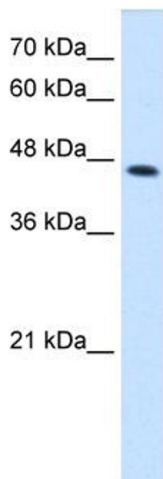
Handling

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.

Publications

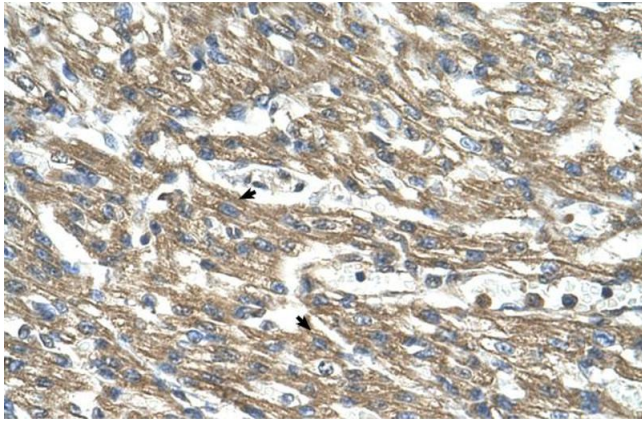
Product cited in:	Rayegan, Dehpour, Sharifi: "Studying neuroprotective effect of Atorvastatin as a small molecule drug on high glucose-induced neurotoxicity in undifferentiated PC12 cells: role of NADPH oxidase." in: Metabolic brain disease , Vol. 32, Issue 1, pp. 41-49, (2016) (PubMed).
	Kuwano, Kawahara, Yamamoto, Teshima-Kondo, Tominaga, Masuda, Kishi, Morita, Rokutan: "Interferon-gamma activates transcription of NADPH oxidase 1 gene and upregulates production of superoxide anion by human large intestinal epithelial cells." in: American journal of physiology. Cell physiology , Vol. 290, Issue 2, pp. C433-43, (2006) (PubMed).

Images



Western Blotting

Image 1. WB Suggested Anti-CTH Antibody Titration:
2.5ug/ml Positive Control: HepG2 cell lysate



Immunohistochemistry

Image 2. Human Heart