

Datasheet for ABIN3042672 anti-CTH antibody (C-Term)



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Overview

Quantity:	100 µg
Target:	CTH
Binding Specificity:	AA 316-331, C-Term
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CTH antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Cystathionine gamma-lyase(CTH) detection. Tested with WB, IHC-P in Human,Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human Cystathionase(316-331aa FYIKGTLQHAEIFLKN), different from the related mouse and rat sequences by two amino acids.
Sequence:	FYIKGTLQHA EIFLKN
Isotype:	IgG
Cross-Reactivity (Details):	<p>Predicted Cross Reactivity: mouse</p> <p>No cross reactivity with other proteins.</p> <p>Predicted Cross Reactivity: Species predicted to be fit for the product based on sequence similarities.</p>

Product Details

Characteristics:	Rabbit IgG polyclonal antibody for Cystathionine gamma-lyase(CTH) detection. Tested with WB, IHC-P in Human,Mouse,Rat. Gene Name: cystathionase(cystathionine gamma-lyase) Protein Name: Cystathionine gamma-lyase
Purification:	Immunogen affinity purified.

Target Details

Target:	CTH
Alternative Name:	CTH (CTH Products)
Background:	<p>Cystathionine gamma-lyase(or cystathionase) is an enzyme which breaks down cystathionine into cysteine and alpha-ketobutyrate. The International Radiation Hybrid Mapping Consortium mapped the CTH gene to chromosome 1. The CTH gene had earlier been assigned to chromosome 16 by study of somatic cell hybrids. It is demonstrated that hydrogen sulfide(H₂S) is physiologically generated by CTH.</p> <p>Synonyms: CGL_HUMAN antibody CTH antibody cystathionase(cystathionine gamma-lyase) antibody Cystathionine gamma lyase antibody Cystathionine gamma-lyase antibody Cysteine desulfhydrase antibody Gamma cystathionase antibody Gamma-cystathionase antibody Homoserine deaminase antibody Homoserine dehydratase antibody MGC9471 antibody</p>
UniProt:	P32929
Pathways:	ER-Nucleus Signaling , Warburg Effect

Application Details

Application Notes:	WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Rat, Predicted Species: Mouse IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections. Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities. Other applications have not been tested. Optimal dilutions should be determined by end users.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na₂HPO₄, 0.05 mg Thimerosal, 0.05 mg Sodium azide.

Preservative: Thimerosal (Merthiolate), Sodium azide

Precaution of Use: This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C/-20 °C

Storage Comment: At -20°C for one year. After reconstitution, at 4°C for one month.
It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Expiry Date: 12 months

Publications

Product cited in: Zhang, Wu: "Fasudil inhibits proliferation and migration of Hep-2 laryngeal carcinoma cells." in: **Drug design, development and therapy**, Vol. 12, pp. 373-381, (2018) ([PubMed](#)).

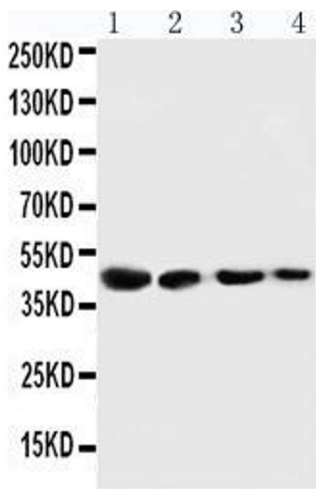
Zhou, Wu, Ma, Xiao, Yu, Yang, Xu, Zhang, Zhou, Ye, Wang: "Attenuation of TGFBR2 expression and tumour progression in prostate cancer involve diverse hypoxia-regulated pathways." in: **Journal of experimental & clinical cancer research : CR**, Vol. 37, Issue 1, pp. 89, (2018) ([PubMed](#)).

Schwartz, Bochkariov: "Novel chemiluminescent Western blot blocking and antibody incubation solution for enhanced antibody-antigen interaction and increased specificity." in: **Electrophoresis**, Vol. 38, Issue 20, pp. 2631-2637, (2017) ([PubMed](#)).

Zuo, Liu, Zhang, Wu, Guo, Liao: "Development of trastuzumab-resistant human gastric

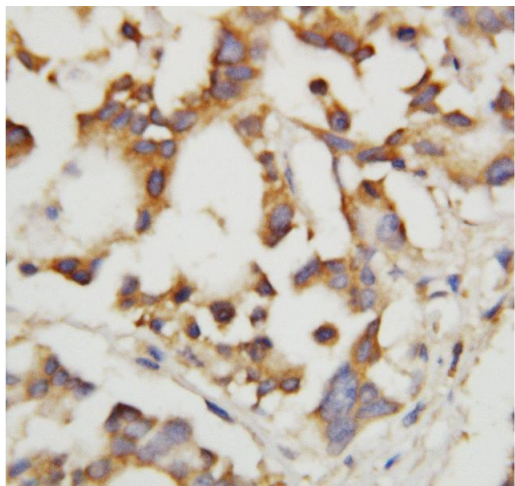
carcinoma cell lines and mechanisms of drug resistance." in: **Scientific reports**, Vol. 5, pp. 11634, (2015) ([PubMed](#)).

Chen, Bao, Zhou, Wang, Wei, Fan: "Glucose transporter-1 expression in CD133+ laryngeal carcinoma Hep-2 cells." in: **Molecular medicine reports**, Vol. 8, Issue 6, pp. 1695-700, (2013) ([PubMed](#)).



Western Blotting

Image 1. Anti-Cystathionase antibody, Western blotting
Lane 1: SMMC Cell Lysate Lane 2: HT180 Cell Lysate Lane 3: HELA Cell Lysate Lane 4: U87 Cell Lysate



Immunohistochemistry

Image 2. Anti-Cystathionase antibody, IHC(P) IHC(P): Human Liver Tissue