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Datasheet for ABIN1700254

anti-CUTC antibody (AA 201-273) (Biotin)

Overview

Quantity:	100 µL
Target:	CUTC
Binding Specificity:	AA 201-273
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CUTC antibody is conjugated to Biotin
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human CUTC
Isotype:	IgG
Predicted Reactivity:	Human,Mouse,Rat
Purification:	Purified by Protein A.

Target Details

Target:	CUTC
Alternative Name:	CUTC (CUTC Products)
Background:	Synonyms: CGI 32, CGI32, Copper homeostasis protein cutC homolog, cutC, CutC copper

Target Details

transporter homolog E. coli, CUTC_HUMAN, RP11-483F11.3.

Background: Copper is an essential micronutrient used as a co-factor for several essential enzymes in all living organisms. Due to the high toxicity of copper, its metabolism is tightly regulated and defects in this regulation can cause Menkes (deficiency) or Wilson (accumulation) disease in various tissue. CUTC (cutC copper transporter homolog (E. coli)), also known as CGI-32, is a 273 amino acid protein belonging to the cutC family. CUTC is involved in copper homeostasis and is encoded by a gene located on human chromosome 10, which contains over 800 genes and 135 million nucleotides. PTEN is an important tumor suppressor gene located on chromosome 10 and, when defective, causes a genetic predisposition to cancer development known as Cowden syndrome. Other chromosome 10 associated disorders include Cockayne syndrome, tetrahydrobiopterin deficiency and trisomy 10.

Gene ID: 51076

Pathways: [Transition Metal Ion Homeostasis](#)

Application Details

Application Notes: WB 1:300-5000
IHC-P 1:200-400
IHC-F 1:100-500

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 µg/µL

Buffer: Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

Storage: -20 °C

Storage Comment: Store at -20°C for 12 months.

Handling

Expiry Date: 12 months