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# Rabbit Anti-CUTC antibody

SL11048R

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| **Product Name:** | CUTC |
| **Chinese Name:** | 铜TransporterCUTC抗体 |
| **Alias:** | CGI 32; CGI32; Copper homeostasis protein cutC homolog; cutC; CutC copper transporter homolog (E. coli); CUTC_HUMAN; RP11-483F11.3. |
| **Organism Species:** | Rabbit |
| **Clonality:** | Polyclonal |
| **React Species:** | Human,Mouse,Rat, |
| **Applications:** | WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500（Paraffin sections need antigen repair）<br>not yet tested in other applications.<br>optimal dilutions/concentrations should be determined by the end user. |
| **Molecular weight:** | 29kDa |
| **Cellular localization:** | The nucleuscytoplasmic |
| **Form:** | Lyophilized or Liquid |
| **Concentration:** | 1mg/ml |
| **immunogen:** | KLH conjugated synthetic peptide derived from human CUTC:201-273/273 |
| **Lsotype:** | IgG |
| **Purification:** | affinity purified by Protein A |
| **Storage Buffer:** | 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol. |
| **Storage:** | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C. |
| **PubMed:** | PubMed |
| **Product Detail:** | 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.

**Function:**
May play a role in copper homeostasis. Can bind one Cu(1+) per subunit.

**Subunit:**
Homotetramer.

**Subcellular Location:**
Cytoplasm. Nucleus. The overexpressed protein is detected in the cytoplasm, and depending on the cell line, also in the nucleus.

**Tissue Specificity:**
Ubiquitous.

**Similarity:**
Belongs to the CutC family.

**SWISS:**
Q9NTM9

**Gene ID:**
51076

**Database links:**

Entrez Gene: 51076Human

Entrez Gene: 66388Mouse

Entrez Gene: 361760Rat

Omim: 610101Human

SwissProt: Q9NTM9Human

SwissProt: Q9D8X1Mouse

Unigene: 16606Human

Unigene: 20257Mouse

**Important Note:**
This product as supplied is intended for research use only, not for use in human,

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| | therapeutic or diagnostic applications. |