

## Rabbit GCSH Polyclonal Antibody | anti-GCSH antibody

GCSH Polyclonal Antibody

|                               |                       |                                        |                                                    |
|-------------------------------|-----------------------|----------------------------------------|----------------------------------------------------|
| CATALOG #<br><b>AAA176661</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human, Mouse, Rat</b> | APPLICATIONS<br><b>ELISA, Immunohistochemistry</b> |
|-------------------------------|-----------------------|----------------------------------------|----------------------------------------------------|

### PRODUCT SYNONYMS

GCSH; Polyclonal Antibody; GCSH Polyclonal Antibody; GCE; Glycine cleavage system H protein; Glycine cleavage system H protein mitochondrial; Glycine cleavage system protein H (aminomethyl carrier); Glycine cleavage system protein H; Lipoic acid containing protein; Mitochondrial; Mitochondrial glycine cleavage system H protein; NKH; anti-GCSH antibody

### PRODUCT SPECIFICATIONS

|                                                |                                                         |
|------------------------------------------------|---------------------------------------------------------|
| Host                                           | Rabbit                                                  |
| Reactivity                                     | Human, Mouse, Rat                                       |
| Clonality                                      | Polyclonal                                              |
| Isotype                                        | IgG                                                     |
| Purity/Purification                            | Antigen Affinity Purification                           |
| Form/Format                                    | PBS with 0.05% NaN <sub>3</sub> and 40% Glycerol, pH7.4 |
| Concentration                                  | 1.08mg/mL (varies by lot)                               |
| Sequence Length                                | 173                                                     |
| Applicable Applications for anti-GCSH antibody | ELISA, IHC (Immunohistochemistry)                       |
| Immunogen                                      | Fusion protein of human GCSH                            |
| Conjugation                                    | Unconjugated                                            |
| Preparation and Storage                        | Store at -20 degree C. Avoid freeze/thaw cycles.        |

### IMAGES



#### IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded Human cervical cancer tissue using GCSH Polyclonal Antibody at dilution of 1:60 (x200)



#### IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded Human colorectal cancer tissue using GCSH Polyclonal Antibody at dilution of 1:60 (x200)

### ADDITIONAL INFORMATION

#### Related Product Information for anti-GCSH antibody

Degradation of glycine is brought about by the glycine cleavage system, which is composed of four mitochondrial protein components: P protein (a pyridoxal phosphate-dependent glycine decarboxylase), H protein (a lipoic acid-containing protein), T protein (a tetrahydrofolate-requiring enzyme), and L protein (a lipoamide dehydrogenase). The protein encoded by this gene is the H protein, which transfers the methylamine group of glycine from the P protein to the T protein. Defects in this gene are a cause of nonketotic hyperglycinemia (NKH). Two transcript variants, one protein-coding and the other probably not protein-coding, have been found for this gene. Also, several transcribed and non-transcribed pseudogenes of this gene exist throughout the genome.

## NCBI AND UNIPROT INFORMATION

|                                  |                                                  |
|----------------------------------|--------------------------------------------------|
| NCBI GI #                        | 311033385                                        |
| NCBI GeneID                      | 2653                                             |
| UniProt Accession #              | P23434                                           |
| NCBI Official Full Name          | Glycine cleavage system H protein, mitochondrial |
| NCBI Official Synonym Full Names | glycine cleavage system protein H                |
| NCBI Official Symbol             | GCSH                                             |
| NCBI Official Synonym Symbols    | GCE; NKH                                         |
| NCBI Protein Information         | glycine cleavage system H protein, mitochondrial |
| UniProt Protein Name             | Glycine cleavage system H protein, mitochondrial |
| UniProt Gene Name                | <b>GCSH</b>                                      |
| UniProt Entry Name               | GCSH_HUMAN                                       |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.