SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-HAGH antibody

Catalog Number: SL15404R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	HAGH
Immunogen:	KLH conjugated synthetic peptide derived from human HAGH: 221-308/308
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 ICC/IF=1:100-500 IF=1:100-500 ELISA=1:5000-10000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	(predicted: Human, Mouse, Rat, Dog, Horse)
Predicted MW.:	32kDa
Subcellular Location:	cytoplasmic Mitochondrion
Background:	The glyoxal pathway plays a role in the detoxification of glucose degradation products (GDP). Glyoxalase I and Gyloxalase II (also designated hydroxyacyl glutathione hydrolase or HAGH) are members of the Gyloxalase family. The Gyloxalase II enzyme is a thiolesterase that catalyzes the hydrolysis of S-D-lactoyl-glutathione to form reduced glutathione and D-lactic acid. It exists only as a monomer and binds two zinc ions per subunit. Glyoxalase II contains 260 amino acids. It is detected in the mitochondria and cytosol of mammals. Both Glyoxalase I and Gyloxalase II are detected at a higher activity level in breast cancer tissues than with matched unaffected tissues. This suggests that glyoxalase inhibitor drugs may be effective in the treatment of cancer. **Function:** Thiolesterase that catalyzes the hydrolysis of S-D-lactoyl-

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	glutathione to form glutathione and D-lactic acid. **Subunit:** Monomer. **Subcellular Location:** Isoform 1: Mitochondrion matrix. Isoform 2: Cytoplasm. **Tissue Specificity:** Expressed in liver and kidney. **Similarity:** Belongs to the metallo-beta-lactamase superfamily. Glyoxalase II family. **Database links:** **Entrez Gene:** 3029 Human **Entrez Gene:** 14651 Mouse **Entrez Gene:** 24439 Rat Omim: 138760 Human **SwissProt:** Q16775 Human **SwissProt:** Q99KB8 Mouse **SwissProt:** O35952 Rat

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