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HAGH Rabbit pAb

Catalog # AP98542

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	Q16775
Other Accession	Q16775
Predicted	Rat, Human, Mouse, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	33806
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human HAGH
Epitope Specificity	221-308/308
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the metallo-beta-lactamase superfamily. Glyoxalase II family.
SUBUNIT	Monomer.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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.

Additional Information

Gene ID	3029
Other Names	GLO2; GLO2D; GLX2; GLXII; HAGH1; Glo-2; Rsp29; GLO2_HUMAN; HAGH; Glyoxalase II (Glx II); 3.1.2.6; GLO2_MOUSE; GLO2_RAT; Round spermatid protein RSP29; hydroxyacylglutathione hydrolase; hydroxyacyl glutathione hydrolase
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.

Protein Information

Name	HAGH
Synonyms	GLO2, HAGH1
Function	Thiolesterase that catalyzes the hydrolysis of S-D-lactoyl- glutathione to form glutathione and D-lactic acid.
Cellular Location	[Isoform 1]: Mitochondrion matrix
Tissue Location	Expressed in liver and kidney.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.