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GLO1 Rabbit pAb

Catalog # AP100116

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q04760
Other Accession	Q04760
Reactivity	Mouse
Predicted	Rat, Pig, Human, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	20778
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human GLO1
Epitope Specificity	101-184/184
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 glyoxalase I family.
SUBUNIT	Homodimer.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The enzyme encoded by GLO1 is responsible for the catalysis and formation of S-lactoyl-glutathione from methylglyoxal condensation and reduced glutatione. GLO is linked to HLA and is localized to 6p21.3-p21.1, between HLA and the centromere.

Additional Information

Gene ID	2739
Other Names	GLOD1; GLYI; HEL-S-74; 0610009E22Rik; 1110008E19Rik; 2510049H23Rik; GLY1; Glo-1; Glo-1r; Glo-1s; Glo1-r; Glo1-s; Qglo; LGUL_HUMAN; GLO1; Aldoketomutase; Glyoxalase I (Glx I); Ketone-aldehyde mutase; Methylglyoxalase; S-D-lactoylglutathione methylglyoxal lyase; 4.4.1.5; LGUL_MOUSE; glyoxalase I; lactoylglutathione lyase
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
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	GLO1
Function	Catalyzes the conversion of hemimercaptal, formed from methylglyoxal and glutathione, to S-lactoylglutathione (PubMed:20454679, PubMed:23122816, PubMed:9705294). Involved in the regulation of TNF-induced transcriptional activity of NF-kappa-B (PubMed:19199007). Required for normal osteoclastogenesis (By similarity).

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