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GSTA4 Rabbit pAb

Catalog # AP99788

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	O15217
Other Accession	O15217
Predicted	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	25704
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human GSTA4
Epitope Specificity	131-222/222
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 GST superfamily. Alpha family. Contains 1 GST C-terminal domain. Contains 1 GST N-terminal domain.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Cytosolic and membrane-bound forms of glutathione S-transferase are encoded by two distinct supergene families. These enzymes are involved in cellular defense against toxic, carcinogenic, and pharmacologically active electrophilic compounds. At present, eight distinct classes of the soluble cytoplasmic mammalian glutathione S-transferases have been identified: alpha, kappa, mu, omega, pi, sigma, theta and zeta. This gene encodes a glutathione S-tranferase belonging to the alpha class. The alpha class genes, which are located in a cluster on chromosome 6, are highly related and encode enzymes with glutathione peroxidase activity that function in the detoxification of lipid peroxidation products. Reactive electrophiles produced by oxidative metabolism have been linked to a number of degenerative diseases including Parkinson's disease, Alzheimer's disease, cataract formation, and atherosclerosis. [provided by RefSeq, Jul 2008]

Additional Information

Gene ID	2941
Other Names	GSTA4-4; GTA4; GSTA4_HUMAN; GSTA4; GST class-alpha member 4; Glutathione S-transferase A4-4; 2.5.1.18; GSTA4_RAT; GST 8-8; GST A4-4; GST K; Glutathione S-transferase Yk (GST Yk); glutathione S-transferase alpha 4; glutathione S-transferase A4
Dilution	WB=1:500-2000,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	GSTA4
Function	Conjugation of reduced glutathione to a wide number of exogenous and endogenous hydrophobic electrophiles. This isozyme has a high catalytic efficiency with 4-hydroxyalkenals such as 4- hydroxynonenal (4-HNE).
Cellular Location	Cytoplasm.
Tissue Location	Expressed at a high level in brain, placenta, and skeletal muscle and much lower in lung and liver

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