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GSTK1 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9867c

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	Q9Y2Q3
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB23190
Calculated MW	25497
Antigen Region	93-120

Additional Information

Gene ID	373156
Other Names	Glutathione S-transferase kappa 1, GST 13-13, GST class-kappa, GSTK1-1, hGSTK1, Glutathione S-transferase subunit 13, GSTK1
Target/Specificity	This GSTK1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 93-120 amino acids from the Central region of human GSTK1.
Dilution	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	GSTK1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	GSTK1
Function	Glutathione S-transferase that catalyzes the conjugation of glutathione to exogenous and endogenous compounds (PubMed:14709161, PubMed:14742434). Significant glutathione conjugating activity is found only

with the model substrate, 1-chloro-2,4-dinitrobenzene (CDNB) (PubMed:14709161).

Cellular Location Peroxisome.

Tissue Location Ubiquitous..

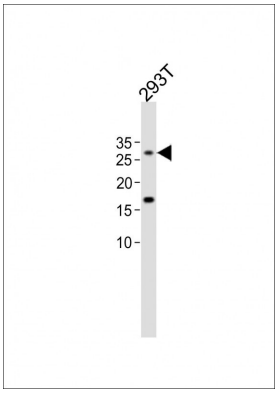
Background

GSTK1 encodes a member of the kappa class of the glutathione transferase superfamily of enzymes that function in cellular detoxification. The encoded protein is localized to the peroxisome and catalyzes the conjugation of glutathione to a wide range of hydrophobic substates facilitating the removal of these compounds from cells. Alternative splicing results in multiple transcript variants.

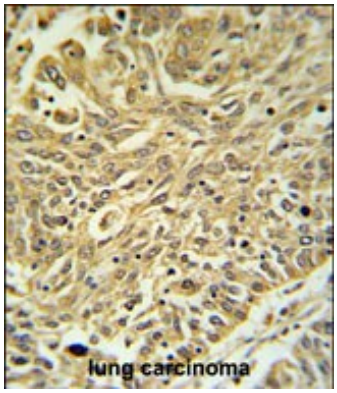
References

Santos, G.S., et al. Int. J. Mol. Med. 24(3):393-399(2009)
Aydos, S.E., et al. Fertil. Steril. 92(2):541-547(2009)
Gao, F., et al. Endocr. J. 56(3):487-494(2009)
Katoh, T., et al. Pharmacogenomics 9(1):93-104(2008)
Li, J., et al. Protein Sci. 14(9):2361-2369(2005)

Images

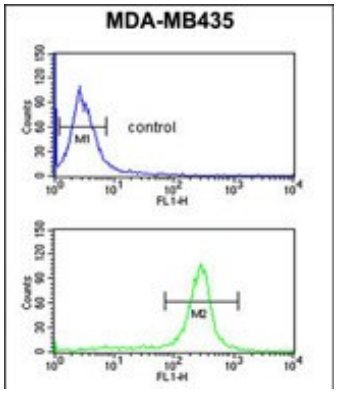


All lanes: Anti-GSTK1 Antibody (Center) at 1:500 dilution + 293T whole cell lysate Lysates/proteins at 20 µg per lane. Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size: 30 KDa Blocking/Dilution buffer: 5% NFDM/TBST.



GSTK1 Antibody (Center) (Cat. #AP9867c) IHC analysis in formalin fixed and paraffin embedded lung carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the GSTK1 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

GSTK1 Antibody (Center) (Cat. #AP9867c) flow cytometric analysis of MDA-MB435 cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



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