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GSTM5 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12728a

Specification

GSTM5 Antibody (N-term) - Product Information

Application	**WB, FC, IHC-P,E**
Primary Accession	P46439
Other Accession	NP_000842.2
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**25675**
Antigen Region	**14-43**

GSTM5 Antibody (N-term) - Additional Information

Gene ID 2949

Other Names
Glutathione S-transferase Mu 5, GST class-mu 5, GSTM5-5, GSTM5

Target/Specificity
This GSTM5 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 14-43 amino acids from the N-terminal region of human GSTM5.

Dilution
WB~~1:1000
FC~~1:10~50
IHC-P~~1:10~50
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

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
GSTM5 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

GSTM5 Antibody (N-term) - Protein Information

Name GSTM5

Function Conjugation of reduced glutathione to a wide number of exogenous and endogenous hydrophobic electrophiles.

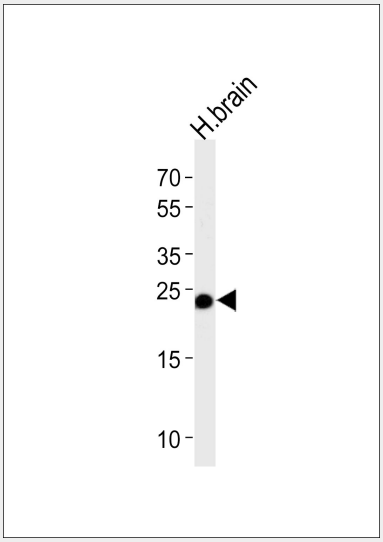
Cellular Location
Cytoplasm.

GSTM5 Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

GSTM5 Antibody (N-term) - Images



Western blot analysis of lysate from human brain tissue lysate, using GSTM5 Antibody (N-term)(Cat. #AP12728a). AP12728a was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug per lane.

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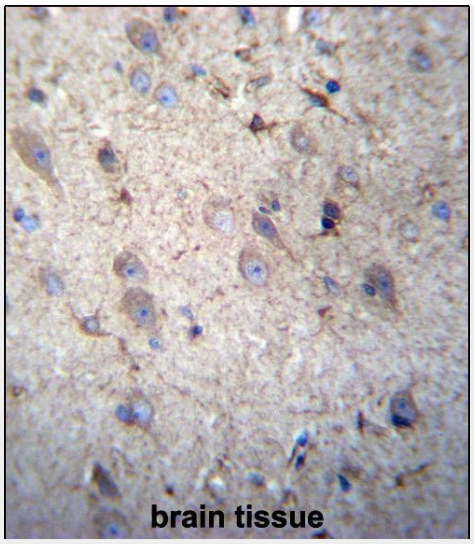
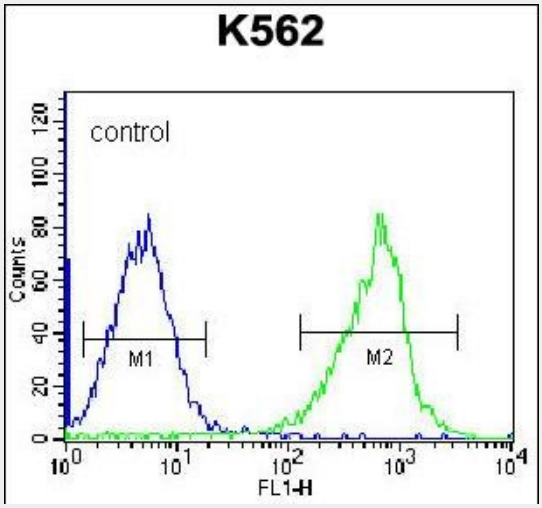


GSTM5 Antibody (N-term) (Cat. #AP12728a)immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of GSTM5 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.



GSTM5 Antibody (N-term) (Cat. #AP12728a) flow cytometric analysis of K562 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

GSTM5 Antibody (N-term) - Background

Cytosolic and membrane-bound forms of glutathione S-transferase are encoded by two distinct supergene families. 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-transferase that belongs to the mu class. The mu class of enzymes functions in the detoxification of electrophilic compounds, including carcinogens, therapeutic drugs, environmental toxins and products of oxidative stress, by conjugation with glutathione. The genes encoding the mu class of enzymes are organized in a gene cluster on chromosome 1p13.3 and are known to be highly polymorphic. These genetic variations can change an

individual's susceptibility to carcinogens and toxins as well as affect the toxicity and efficacy of certain drugs. Diversification of these genes has occurred in regions encoding substrate-binding domains, as well as in tissue expression patterns, to accommodate an increasing number of foreign compounds.

GSTM5 Antibody (N-term) - References

Wang, Y., et al. J. Hum. Genet. 55(8):490-494(2010)
Yu, K.D., et al. Breast Cancer Res. Treat. 121(2):485-496(2010)
Davila, S., et al. Genes Immun. 11(3):232-238(2010)
Moyer, A.M., et al. Cancer Epidemiol. Biomarkers Prev. 19(3):811-821(2010)
Saito, A., et al. J. Hum. Genet. 54(6):317-323(2009)