

ARG58798
anti-GSTM3 antibodyPackage: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes GSTM3
Tested Reactivity	Hu, Ms, Rat
Tested Application	IHC-P
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	GSTM3
Species	Human
Immunogen	Recombinant protein corresponding to E93-Q206 of Human GSTM3.
Conjugation	Un-conjugated
Alternate Names	GSTM3-3; GST5; EC 2.5.1.18; Glutathione S-transferase Mu 3; GSTB; hGSTM3-3; GST class-mu 3; GTM3

Application Instructions

Application table	Application	Dilution
	IHC-P	0.5 - 1 µg/ml

Application Note IHC-P: Antigen Retrieval: Heat mediated was performed in Citrate buffer (pH 6.0) for 20 min.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

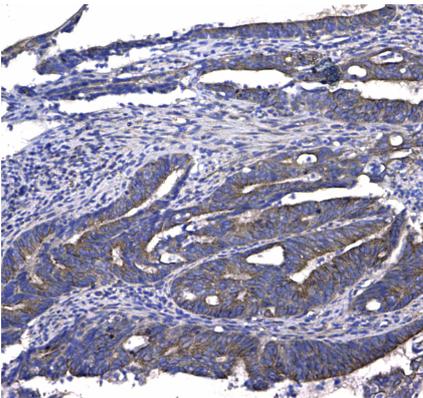
Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.9% NaCl, 0.2% Na ₂ HPO ₄ , 0.05% Sodium azide and 4% Trehalose.
Preservative	0.05% Sodium azide
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

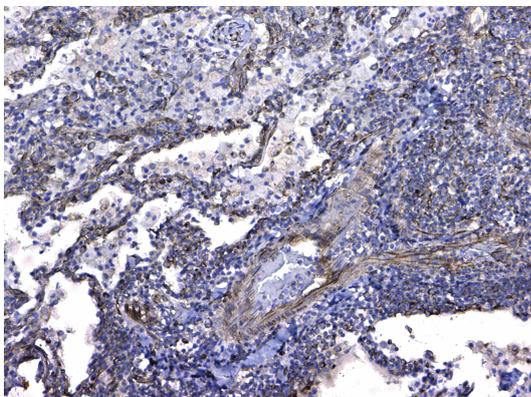
Gene Symbol	GSTM3
Gene Full Name	glutathione S-transferase mu 3 (brain)
Background	Cytosolic and membrane-bound forms of glutathione S-transferase are encoded by two distinct supergene families. At present, eight distinct classes of the soluble cytoplasmic mammalian glutathione S-transferases have been 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. Mutations of this class mu gene have been linked with a slight increase in a number of cancers, likely due to exposure with environmental toxins. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2008]
Function	Conjugation of reduced glutathione to a wide number of exogenous and endogenous hydrophobic electrophiles. May govern uptake and detoxification of both endogenous compounds and xenobiotics at the testis and brain blood barriers. [UniProt]
Calculated Mw	27 kDa
PTM	The N-terminus is blocked. [UniProt]
Cellular Localization	Cytoplasm. [UniProt]

Images



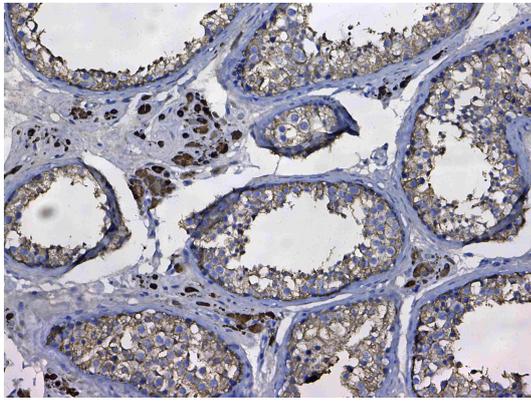
ARG58798 anti-GSTM3 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human rectal cancer tissue. Antigen Retrieval: Heat mediated was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG58798 anti-GSTM3 antibody at 1 µg/ml, overnight at 4°C.



ARG58798 anti-GSTM3 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human lung cancer tissue. Antigen Retrieval: Heat mediated was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG58798 anti-GSTM3 antibody at 1 µg/ml, overnight at 4°C.



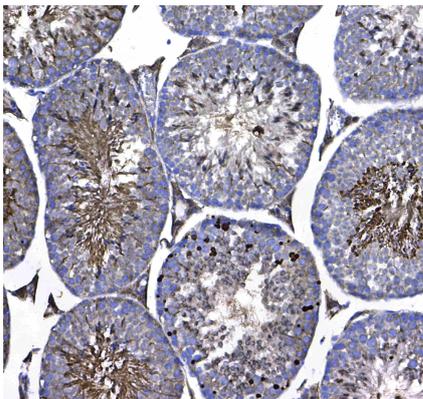
ARG58798 anti-GSTM3 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human testis tissue .
Antigen Retrieval: Heat mediated was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG58798 anti-GSTM3 antibody at 1 µg/ml, overnight at 4°C.



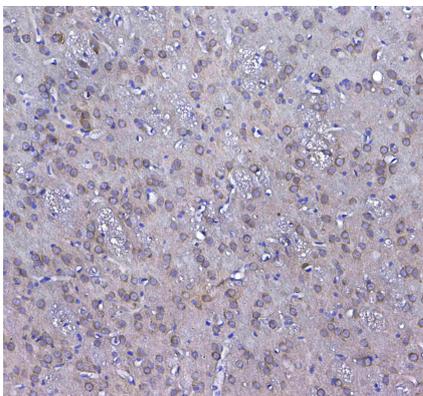
ARG58798 anti-GSTM3 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Mouse brain tissue.
Antigen Retrieval: Heat mediated was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG58798 anti-GSTM3 antibody at 1 µg/ml, overnight at 4°C.



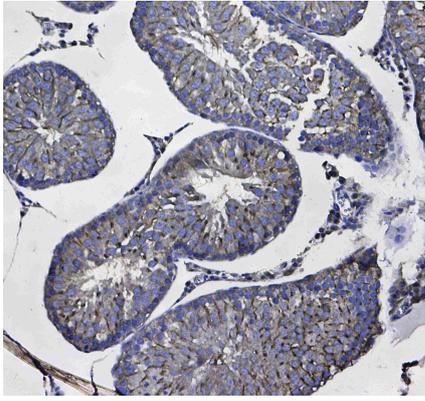
ARG58798 anti-GSTM3 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Mouse testis tissue .
Antigen Retrieval: Heat mediated was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG58798 anti-GSTM3 antibody at 1 µg/ml, overnight at 4°C.



ARG58798 anti-GSTM3 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Rat brain tissue .
Antigen Retrieval: Heat mediated was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG58798 anti-GSTM3 antibody at 1 µg/ml, overnight at 4°C.



ARG58798 anti-GSTM3 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Rat testis tissue .
Antigen Retrieval: Heat mediated was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG58798 anti-GSTM3 antibody at 1 µg/ml, overnight at 4°C.