

Rabbit GST3/GST pi Polyclonal Antibody | anti-GST3/GST pi antibody

Anti-GST3/GST pi Picoband Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA124568	Rabbit	Human, Mouse, Rat No cross reactivity with other proteins.	Western Blot, Immunohistochemistry, ELISA

PRODUCT SYNONYMS

GST3/GST pi; Polyclonal Antibody; Anti-GST3/GST pi Picoband Antibody; Glutathione S-transferase P 1; Gst P1; 2.5.1.18; GST YF-YF; GST class-pi; GST-piB; Preadipocyte growth factor; Gstp1; Gstpib; anti-GST3/GST pi antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat No cross reactivity with other proteins.
Clonality	Polyclonal
Purity/Purification	Immunogen affinity purified
Form/Format	Lyophilized
Concentration	Add 0.2ml of distilled water will yield a concentration of 500ug/ml. (varies by lot)
Sequence Length	210
Applicable Applications for anti-GST3/GST pi antibody	WB (Western Blot), IHC (Immunohistochemistry), ELISA
Immunogen	E Coli-derived mouse GST3/GST pi recombinant protein (Position: P2-Q210).
Subcellular Localization	Cytoplasm. Mitochondrion. Nucleus. The 83 N-terminal amino acids function as an uncleaved transit peptide, and arginine residues within it are crucial for mitochondrial localization.
Tissue Specificity	Ubiquitously expressed.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



IHC (Immunohistochemistry)

Figure 5. IHC analysis of GST3 / GST pi using anti-GST3 / GST pi antibody (AAA124568). GST3 / GST pi was detected in paraffin-embedded section of rat liver tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-GST3 / GST pi Antibody (AAA124568) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



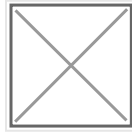
IHC (Immunohistochemistry)

Figure 4. IHC analysis of GST3 / GST pi using anti-GST3 / GST pi antibody (AAA124568). GST3 / GST pi was detected in paraffin-embedded section of rat kidney tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-GST3 / GST pi Antibody (AAA124568) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohistochemisry)

Figure 3. IHC analysis of GST3 / GST pi using anti-GST3 / GST pi antibody (AAA124568). GST3 / GST pi was detected in paraffin-embedded section of mouse liver tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-GST3 / GST pi Antibody (AAA124568) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohiostchemistry)

Figure 2. IHC analysis of GST3 / GST pi using anti-GST3 / GST pi antibody (AAA124568). GST3 / GST pi was detected in paraffin-embedded section of mouse kidney tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-GST3 / GST pi Antibody (AAA124568) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.

WB (Western Blot)

Figure 1. Western blot analysis of GST3 / GST pi using anti-GST3 / GST pi antibody (AAA124568). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: mouse lung tissue lysates, Lane 2: mouse testis tissue lysates, Lane 3: rat spleen tissue lysates, Lane 4: human A549 whole cell lysates, Lane 5: human placenta tissue lysates, Lane 6: human Hela whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-GST3 / GST pi antigen affinity purified polyclonal antibody at 0.5 ug/mL overnight at 4 degree C, then washed with TBS-0.1% Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for GST3 / GST pi at approximately 23KD. The expected band size for GST3 / GST pi is at 23KD.

ADDITIONAL INFORMATION

Related Product Information for anti-GST3/GST pi antibody	Description: Glutathione S-transferases pi (GSTP1), also known as GST3, is an enzyme that in humans is encoded by the GSTP1 gene. This gene is mapped to 11q13.2. GSTP1 has 7 exons and 6 introns contained within approximately 2.8 kilobases. GSTP1 belongs to Glutathione S-transferases (GSTs) which are a family of enzymes that play an important role in detoxification by catalyzing the conjugation of many hydrophobic and electrophilic compounds with reduced glutathione. GSTP1 presents in all tissues and cells, with the exception of red cells, in which only erythrocyte GST(GSTe) is observed. What's more, GSTP1 is a polymorphic gene encoding active, functionally different GSTP1 variant proteins that are thought to function in xenobiotic metabolism and play a role in susceptibility to cancer, and other diseases. Protein Function: Conjugation of reduced glutathione to a wide number of exogenous and endogenous hydrophobic electrophiles. Can metabolize 1-chloro-2,4-dinitrobenzene. Regulates negatively CDK5 activity via p25/p35 translocation to prevent neurodegeneration (By similarity).
Product Categories/Family for anti-GST3/GST pi antibody	Cardiovascular; Blood; Neuroscience; Neurology Process; Metabolism; Neurogenesis; Metabolism; Pathways and Processes; Mitochondrial Metabolism; Mitochondrial Markers; Redox Metabolism; Oxidative Atrress; Types of Disease; Cancer

NCBI AND UNIPROT INFORMATION

NCBI GI #	10092608
NCBI GeneID	14870
NCBI Accession #	NP_038569.1
NCBI GenBank Nucleotide #	NM_013541.1
UniProt Accession #	P19157; Q8BNY4
Molecular Weight	23,609 Da

NCBI Official Full Name	glutathione S-transferase P 1
NCBI Official Synonym Full Names	glutathione S-transferase, pi 1
NCBI Official Symbol	Gstp1
NCBI Official Synonym Symbols	GstpiB
NCBI Protein Information	glutathione S-transferase P 1
UniProt Protein Name	Glutathione S-transferase P 1
UniProt Gene Name	Gstp1
UniProt Synonym Gene Names	GstpiB; Gst P1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/gst3-gst-pi-antibody-western-blot-immunohistochemistry-elisa/124568>