

## Anti-GST3/GST pi/GSTP1 Antibody Picoband®

Catalog Number: PA1590

### About GSTP1

Glutathione S-transferases pi, also known as GST3, present in all tissues and cells, with the exception of red cells, in which only erythrocyte GST (GSTe) is observed. The GST-pi gene has 7 exons and 6 introns contained within approximately 2.8 kilobases. The GST-pi gene is mapped to chromosome 11. Placental glutathione-S-transferase-pi mRNA is abundantly expressed in human skin. GSTP does not contribute in vivo to the formation of glutathione conjugates of acetaminophen but plays a novel and unexpected role in the toxicity of this compound.

### Overview

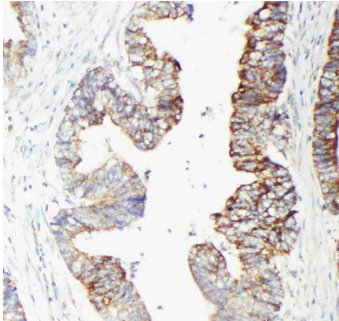
Product Name	Anti-GST3/GST pi/GSTP1 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-GST3/GST pi/GSTP1 Antibody catalog # PA1590. Tested in IHC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg Thimerosal, 0.05mg NaN <sub>3</sub> . *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P09211

### Technical Details

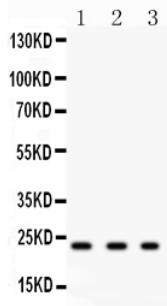
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human GST3/GST pi, different from the related rat and mouse sequences by two amino acids.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Cross Reactivity	No cross-reactivity with other proteins

Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human Western blot, 0.1-0.5ug/ml, Human, Rat, Mouse

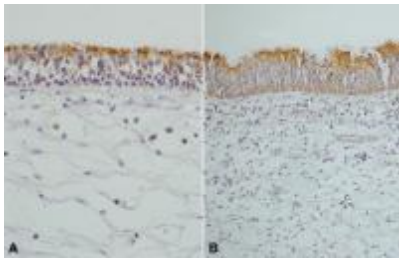
## Anti-GST3/GST pi/GSTP1 Antibody Picoband® (PA1590) Images



Anti-GST3/GST pi antibody, PA1590, IHC(P)IHC(P): Human Intestinal Cancer Tissue



Anti-GST3/GST pi antibody, PA1590, Western blotting All lanes: Anti GST3/GST pi (PA1590) at 0.5ug/ml Lane 1: Rat Kidney Tissue Lysate at 50ug Lane 2: HELA Whole Cell Lysate at 40ug Lane 3: COLO320 Whole Cell Lysate at 40ug Predicted bind size: 23KD Observed bind size: 23KD



( A ) Control ( B ) Antrochoanal polyp (ACP) patient. The expression of GSTP1 in ACP patients and controls is not statistically different. (GSTP1; original magnification: x200). (Control; original magnification: x150). Index in PubMed under a CC BY license. PMID: 40443552

## 4 Publications Citing This Product

1. PubMed ID: 26261505, Enhanced expression of stem cell markers and drug resistance in sphere-forming non-small cell lung cancer cells.
2. PubMed ID: 25834438, Yang P, Gao Z, Zhang H, Fang Z, Wu C, Xu H, Huang Qj. Neuropsychiatr Dis Treat. 2015 Mar 6;11:597-607. Doi: 10.2147/Ndt.S78131. Ecollection 2015. Changes In Proinflammatory Cytokines And White Matter In Chronically Stressed Rats.
3. PubMed ID: 30321868, Glutathione S-Transferases and Cytochrome P450 enzyme expression in patients with Intracranial Tumors: Preliminary Report of 55 Patients

Visit [bosterbio.com/anti-gst3-gst-pi-antibody-pa1590-boster.html](http://bosterbio.com/anti-gst3-gst-pi-antibody-pa1590-boster.html) to see all 4 publications.

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