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Datasheet for ABIN968135

## anti-GSTP1 antibody (AA 5-210)

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### Overview

Quantity:	150 µg
Target:	GSTP1
Binding Specificity:	AA 5-210
Reactivity:	Human, Mouse, Rat, Dog
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This GSTP1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunoprecipitation (IP), Immunofluorescence (IF)

### Product Details

Immunogen:	Human GST-pi aa. 5-210
Clone:	3-GST
Isotype:	IgG1
Cross-Reactivity:	Mouse (Murine), Rat (Rattus), Dog (Canine)
Characteristics:	<ol style="list-style-type: none"><li>1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.</li><li>2. Please refer to us for technical protocols.</li><li>3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.</li><li>4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.</li></ol>

## Product Details

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**Purification:** The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

## Target Details

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**Target:** GSTP1

**Alternative Name:** GST-pi ([GSTP1 Products](#))

**Background:** Glutathione-S-Transferases (GSTs) are a family of dimeric proteins that catalyze the S-conjugation of glutathione with many compounds for detoxification. The GSTs are categorized into four classes based on their biochemical and structural properties: alpha,  $\mu$ , pi, and theta. GST-pi is of particular interest because it is over-expressed in many tumors, but is either absent or expressed at low levels in the corresponding normal tissues. This high expression of GST-pi is associated with malignant transformation and correlates with a decrease in GST activity. Three different GST-pi proteins have been isolated and designated as hGSTP1A, hGSTP1B, and hGSTP1C. These isoforms are nearly identical, varying by only one to two amino acids. This antibody is routinely tested by western blot analysis.

Synonyms: Glutathione-S-Transferase-pi

**Molecular Weight:** 23 kDa

**Pathways:** [Cellular Response to Molecule of Bacterial Origin](#)

## Application Details

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**Comment:** Related Products: ABIN967389, ABIN968535

**Restrictions:** For Research Use only

## Handling

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**Format:** Liquid

**Concentration:** 250  $\mu$ g/mL

**Buffer:** Aqueous buffered solution containing BSA, glycerol, and  $\leq 0.09$  % sodium azide.

**Preservative:** Sodium azide

**Precaution of Use:** This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

**Storage:** -20 °C

## Handling

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Storage Comment: Store undiluted at -20° C.

## Publications

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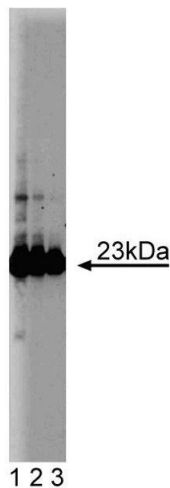
Product cited in: Ali-Osman, Akande, Antoun, Mao, Buolamwini: "Molecular cloning, characterization, and expression in Escherichia coli of full-length cDNAs of three human glutathione S-transferase Pi gene variants. Evidence for differential catalytic activity of the encoded proteins." in: **The Journal of biological chemistry**, Vol. 272, Issue 15, pp. 10004-12, (1997) ([PubMed](#)).

Zhou, Evans, London, Xia, Zou, Shen, Clapper: "Glutathione S-transferase expression in hepatitis B virus-associated human hepatocellular carcinogenesis." in: **Cancer research**, Vol. 57, Issue 13, pp. 2749-53, (1997) ([PubMed](#)).

Kano, Sakai, Muramatsu: "Structure and expression of a human class pi glutathione S-transferase messenger RNA." in: **Cancer research**, Vol. 47, Issue 21, pp. 5626-30, (1987) ([PubMed](#)).

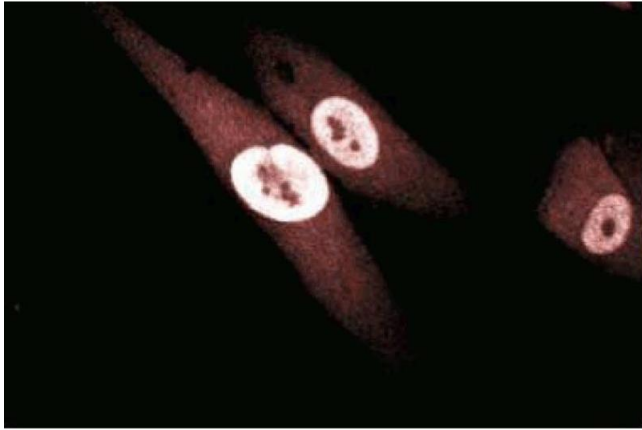
## Images

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### Western Blotting

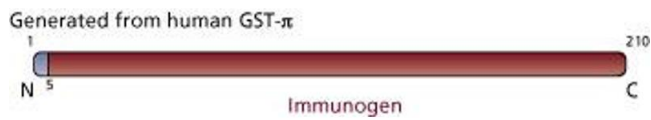
**Image 1.** Western blot analysis of GST-pi on a HeLa cell lysate (Human cervical epitheloid carcinoma, ATCC CCL-2.2). Lane 1: 1:1000, lane 2: 1:2000, lane 3: 1:4000 dilution of the mouse anti- GST-pi antibody.



### Immunofluorescence

**Image 2.** Immunofluorescence staining of human fibroblasts.

**Image 3.**



Please check the [product details page](#) for more images. Overall 4 images are available for ABIN968135.