

# Anti-GST3 Antibody

## ER1802-63



<b>Product Type:</b>	Rabbit polyclonal IgG, primary antibodies
<b>Species reactivity:</b>	Human, Mouse, Rat
<b>Applications:</b>	WB, IF-Cell, IHC-P
<b>Molecular Wt:</b>	Predicted band size: 23 kDa

**Description:** Glutathione S-transferases (GSTs) function in the metabolic detoxification of various environmental carcinogens and lipid hydroperoxides. In response to oxidative stress, upregulation of the GST family member GSTP1 occurs, consistent with this function. Furthermore, the GSTP1 gene is subject to CpG island hypermethylation, a state that correlates with human prostatic carcinogenesis. GSTP1 gene hypermethylation can be detected in urine, ejaculate and plasma from men with prostate cancer, potentially making GSTP1 a useful biomarker for prostate cancer screening.

**Immunogen:** Recombinant protein within N-terminal human GST3.

**Positive control:** SiHa cell lysate, Hela cell lysate, A549 cell lysate, mouse kidney tissue lysate, rat liver tissue lysate, A549, HUVEC, LOVO, human liver cancer tissue, human placenta tissue.

**Subcellular location:** Cytoplasm. Mitochondrion, Nucleus.

**Database links:** SwissProt: P09211 Human | P19157 Mouse | P04906 Rat

### Recommended Dilutions:

<b>WB</b>	1:500-1:1,000
<b>IF-Cell</b>	1:500-1:1,000
<b>IHC-P</b>	1:50-1:200

**Storage Buffer:** 1\*PBS (pH7.4), 0.2% BSA, 50% Glycerol. Preservative: 0.05% Sodium Azide.

**Storage Instruction:** Store at +4°C after thawing. Aliquot store at -20°C. Avoid repeated freeze / thaw cycles.

**Purity:** Immunogen affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

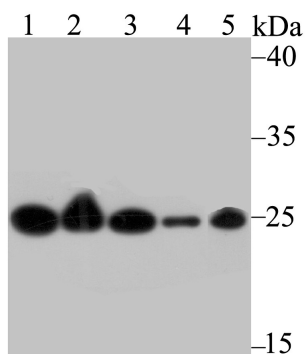
Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

 华安生物  
HUABIO  
www.huabio.cn

## Images



**Fig1:** Western blot analysis of GST3 on different cell lysate using anti-GST3 antibody at 1/1,000 dilution.

**Positive control:**

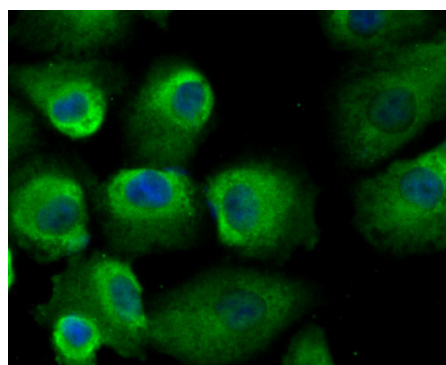
Lane 1: SiHa cell lysate

Lane 2: Hela cell lysate

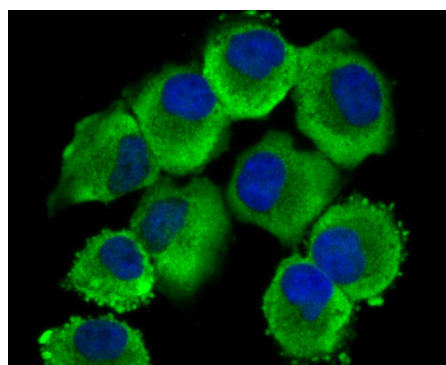
Lane 3: A549 cell lysate

Lane 4: Mouse kidney tissue lysate

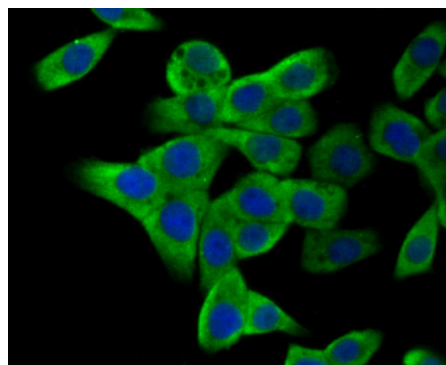
Lane 5: Rat liver tissue lysate



**Fig2:** ICC staining GST3 in A549 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



**Fig3:** ICC staining GST3 in HUVEC cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



**Fig4:** ICC staining GST3 in LOVO cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

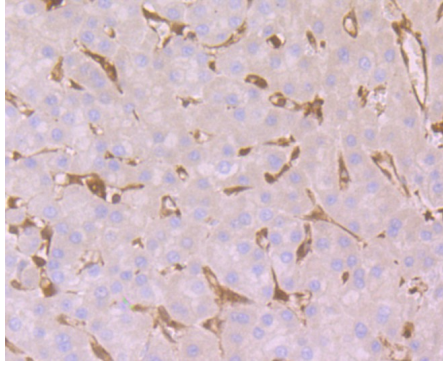
Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

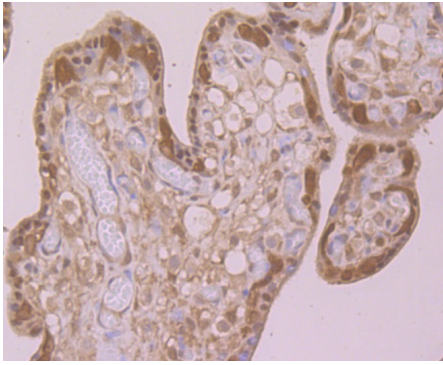
Technical:0086-571-89986345

Service mail:support@huabio.cn

华安生物  
HUABIO  
www.huabio.cn



**Fig5:** Immunohistochemical analysis of paraffin-embedded human liver cancer tissue using anti-GST3 antibody. Counter stained with hematoxylin.



**Fig6:** Immunohistochemical analysis of paraffin-embedded human placenta tissue using anti-GST3 antibody. Counter stained with hematoxylin.

**Note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

### Background References

1. Lei X et al. GSTP1 as a novel target in radiation induced lung injury. J Transl Med. 2021 Jul
2. Zhang Y et al. Histone methyltransferase G9a protects against acute liver injury through GSTP1. Cell Death Differ. 2020 Apr

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

华安生物  
HUABIO  
www.huabio.cn