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Datasheet for ABIN7267451

## anti-Glutathione Synthetase antibody (AA 373-474)

### 4 Images

#### Overview

Quantity:	100 µL
Target:	Glutathione Synthetase (GSS)
Binding Specificity:	AA 373-474
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Glutathione Synthetase antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

#### Product Details

Purpose:	[KO Validated] Glutathione Synthetase (GSS) Rabbit pAb
Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 373-474 of human Glutathione Synthetase (Glutathione Synthetase (GSS)) (NP_000169.1).
Sequence:	NLYGEEMVQA LKQLKDSEER ASYILMEKIE PEPFENCLLR PGSPARVVQC ISELGIFGVY VRQEKTLVMN KHVGHLLRTK AIEHADGGVA AGVAVLDPY PV
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification
Grade:	KO Validated

## Target Details

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Target:	Glutathione Synthetase (GSS)
Alternative Name:	GSS ( <a href="#">GSS Products</a> )
Background:	Glutathione is important for a variety of biological functions, including protection of cells from oxidative damage by free radicals, detoxification of xenobiotics, and membrane transport. The protein encoded by this gene functions as a homodimer to catalyze the second step of glutathione biosynthesis, which is the ATP-dependent conversion of gamma-L-glutamyl-L-cysteine to glutathione. Defects in this gene are a cause of glutathione synthetase deficiency.,GSS,GSHS,HEL-S-64p,HEL-S-88n,Signal Transduction,Cell Biology & Developmental Biology,Endocrine & Metabolism,Amino acid metabolism,Drug metabolism,Neuroscience,GSS
Molecular Weight:	40kDa/52kDa
Gene ID:	2937
UniProt:	<a href="#">P48637</a>
Pathways:	<a href="#">Warburg Effect</a>

## Application Details

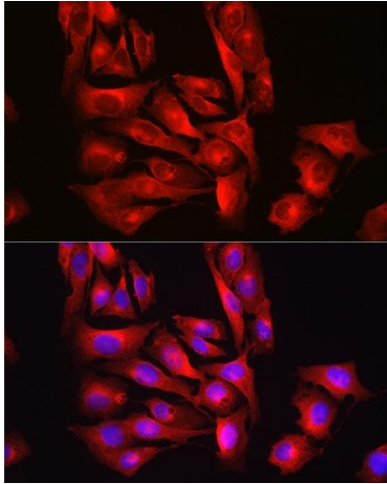
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Application Notes:	WB,1:500 - 1:2000,IF,1:50 - 1:200
Restrictions:	For Research Use only

## Handling

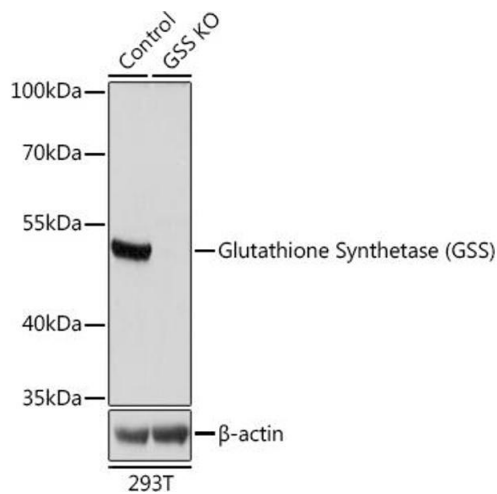
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Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.



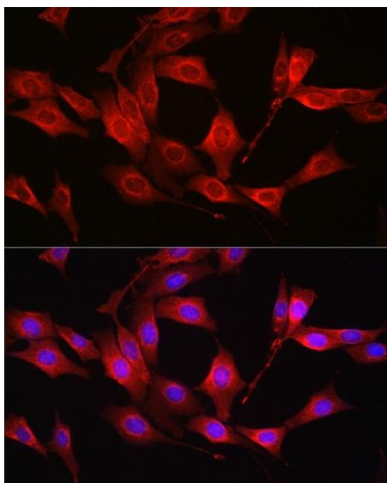
### Immunofluorescence

**Image 1.** Immunofluorescence analysis of U2OS cells using [KO Validated] Glutathione Synthetase (GSS) Rabbit pAb (ABIN7267451) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.



### Western Blotting

**Image 2.** Western blot analysis of extracts from normal (control) and Glutathione Synthetase (Glutathione Synthetase (GSS)) knockout (KO) 293T cells, using Glutathione Synthetase (Glutathione Synthetase (GSS)) antibody (ABIN7267451) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 5s.



### Immunofluorescence

**Image 3.** Immunofluorescence analysis of NIH/3T3 cells using [KO Validated] Glutathione Synthetase (GSS) Rabbit pAb (ABIN7267451) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN7267451.