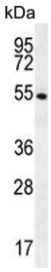
GSR Antibody / Glutathione Reductase (F54633)

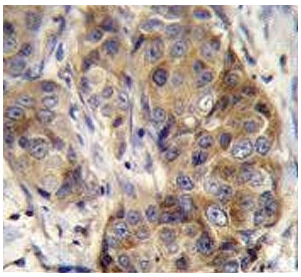
Catalog No.	Formulation	Size
F54633-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F54633-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

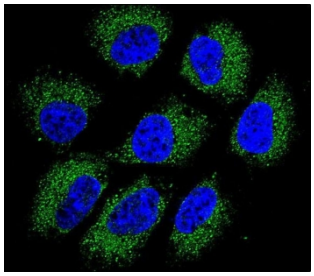
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
UniProt	P00390
Localization	Cytoplasmic
Applications	Flow Cytometry : 1:25 (1x10e6 cells) Immunofluorescence : 1:25 Immunohistochemistry (FFPE) : 1:25 Western Blot : 1:500-1:2000
Limitations	This GSR antibody is available for research use only.



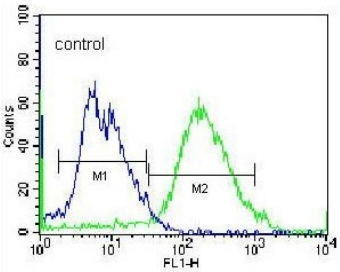
Western blot testing of human NCI-H460 cell lysate with GSR antibody. Predicted molecular weight ~56 kDa.



IHC testing of FFPE human breast carcinoma tissue with GSR antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



Immunofluorescent staining of human NCI-H460 cells with GSR antibody (green) and DAPI nuclear stain (blue).



Flow cytometry testing of human NCI-H460 cells with GSR antibody; Blue=isotype control, Green= GSR antibody.

Description

This gene encodes a member of the class-I pyridine nucleotide-disulfide oxidoreductase family. This enzyme is a homodimeric flavoprotein. It is a central enzyme of cellular antioxidant defense, and reduces oxidized glutathione disulfide (GSSG) to the sulfhydryl form GSH, which is an important cellular antioxidant. Rare mutations in this gene result in hereditary glutathione reductase deficiency. Multiple alternatively spliced transcript variants encoding different isoforms have been found.

Application Notes

The stated application concentrations are suggested starting points. Titration of the GSR antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 380-408 from the human protein was used as the immunogen for the GSR antibody.

Storage

Aliquot the GSR antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.