

## Datasheet: HCA054F

<b>Description:</b>	HUMAN ANTI GST:FITC
<b>Specificity:</b>	GST
<b>Other names:</b>	GLUTATHIONE-S-TRANSFERASE
<b>Format:</b>	FITC
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AbD03937
<b>Isotype:</b>	HuCAL Fab bivalent
<b>Quantity:</b>	0.1 mg

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
ELISA	▪			1/30 - 1/300
Immunofluorescence	▪			Neat - 1/50

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

### Product Form

A bivalent human recombinant Fab selected from the HuCAL® GOLD phage display library. Expressed in *E. coli* and purified using NiNTA affinity chromatography. This Fab fragment is dimerized via a helix-turn-helix motif. The antibody is tagged with a myc-tag (EQKLISEEDL) and a his-tag (HHHHHH) at the C-terminus of the antibody heavy chain, and conjugated to fluorescein isothiocyanate.

Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	FITC	490	525

### Preparation

Metal chelate affinity chromatography

### Buffer Solution

Phosphate buffered saline

### Preservative Stabilisers

0.09% Sodium Azide (NaN<sub>3</sub>) 1% Bovine Serum Albumin

<b>Approx. Protein Concentrations</b>	Antibody concentration 0.1mg/ml
<b>Immunogen</b>	Recombinant Glutathione-S-transferase.
<b>RRID</b>	AB_915275
<b>Specificity</b>	<p><b>Human anti GST antibody, clone AbD03937</b> detects glutathione-S-transferase (GST), a family of cytosolic dimeric isoenzymes that play an important role in detoxification by catalyzing the conjugation of reduced glutathione to a myriad of hydrophobic and electrophilic compounds. GSTs may also bind toxins and function as transport proteins.</p> <p>Mammalian GSTs are ~45–55 kDa in size and are assigned to at least four generic classes: Alpha, Mu , Pi and Theta. The amino acid sequence GST is highly conserved in most organisms, including mammals.</p> <p>GST is a commonly used tag in protein expression systems.</p>
<b>Storage</b>	<p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>This product should be stored undiluted. This product is photosensitive and should be protected from light.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody.</p>
<b>Guarantee</b>	12 months from date of despatch.
<b>Acknowledgements</b>	<p>Sold under license of U.S. Patents 6753136, 7785859 and 8273688 and corresponding patents. This antibody was developed by Bio-Rad, Zeppelinstr. 4, 82178 Puchheim, Germany.</p> <p>His-tag is a registered trademark of EMD Biosciences.</p>
<b>Health And Safety Information</b>	<p>Material Safety Datasheet documentation #10041 available at: 10041: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf</a></p>
<b>Licensed Use</b>	For in vitro research purposes only, unless otherwise specified in writing by Bio-Rad.
<b>Regulatory</b>	For research purposes only
<b>Technical Advice</b>	<p>Recommended protocols and further information about HuCAL recombinant antibody technology can be found in the <a href="#">HuCAL Antibodies Technical Manual</a></p>

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