Datasheet: HCA054F

Description:	HUMAN ANTI GST:FITC
Specificity:	GST
Other names:	GLUTATHIONE-S-TRANSFERASE
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	AbD03937
Isotype:	HuCAL Fab bivalent
Quantity:	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.

	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_3) 1% Bovine Serum Albumin

Approx. Protein Concentrations

Antibody concentration 0.1mg/ml

Immunogen

Recombinant Glutathione-S-transferase

Specificity

Human anti GST antibody, clone AbD03937 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. 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. GST is a commonly used tag in protein expression systems.
Storage	Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature the antibody.
Shelf Life	12 months from date of despatch.
Acknowledgements	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. His-tag is a registered trademark of EMD Biosciences.
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: 10041: https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf
Licensed Use	For in vitro research purposes only, unless otherwise specified in writing by Bio-Rad.
Regulatory	For research purposes only
Technical Advice	Recommended protocols and further information about HuCAL recombinant antibody technology can be found in the HuCAL Antibodies Technical Manual

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