

Datasheet: TZA037

Description:	HUMAN ANTI RAT IgG2a
Specificity:	IgG2a
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD41049
Isotype:	Fab antibody
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
Flow Cytometry	▪			
ELISA	▪			
Western Blotting	▪			

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.

Target Species	Rat
Product Form	A monovalent human recombinant Fab (kappa light chain) selected from the HuCAL® phage display library, expressed in <i>E. coli</i> strain. The antibody is tagged with a DYKDDDDK tag, a SpyTag version 2 (VPTIVMVDAYKRYK) and a His-tag (HHHHHH) at the C-terminus of the antibody heavy chain. This antibody is supplied as a liquid.
Preparation	Metal chelate affinity chromatography
Source	<i>E. coli</i>
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.0095% MIT
Approx. Protein	Antibody concentration 0.5 mg/ml

Concentrations

Immunogen Recombinant human/rat IgG2a chimera

External Database Links

UniProt:

[P20760](#) [Related reagents](#)

Entrez Gene:

[679045](#) LOC679045 [Related reagents](#)

Specificity

Human anti rat IgG2a antibody, clone AbD41049 recognizes rat IgG2a. No cross-reactivity is seen with other rat immunoglobulin subclasses.

The monovalent Fab format of this antibody (TZA037) is tagged with a SpyTag at the C-terminus of the Fab heavy chain, enabling the user to couple it to a [SpyCatcher reagent](#) for conversion to alternative formats in less than an hour.

Human anti rat IgG2a, clone AbD41049 is also available as a bivalent Fab antibody already coupled to HRP (TZA037P).

Storage

This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

Guarantee

12 months from date of despatch

Acknowledgements

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His-tag is a registered trademark of EMD Biosciences

Health And Safety Information

Material Safety Datasheet documentation #20479 available at:
<https://www.bio-rad-antibodies.com/SDS/TZA037>
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Regulatory

For research purposes only

Technical Advice

Recommended protocols for coupling a Fab antibody with a SpyTag to a SpyCatcher can be found at [SpyTag and SpyCatcher Products](#), and further information about HuCAL recombinant antibody technology can be found in the [HuCAL Antibodies Technical Manual](#)

Related Products

Recommended Useful Reagents

[SpyTag3 PEPTIDE \(BLP086\)](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

'M421409:230706'

Printed on 13 Aug 2023

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