

Datasheet: TZA059

Description:	HUMAN ANTI RISANKIZUMAB
Specificity:	RISANKIZUMAB
Other names:	Skyrizi
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD58231
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
ELISA	▪			

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 monovalent human recombinant Fab (lambda light chain) selected from the HuCAL phage display library and expressed in a proprietary E. coli strain. The antibody is tagged with a DYKDDDDK tag, a SpyTag version 2 (VPTIVMVDAYKRYK) and a His6-tag (HHHHHH) at the C-terminus of the antibody heavy chain. This antibody is supplied as a liquid.

Preparation

Metal chelate affinity chromatography

Source

E.coli

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.0095% MIT

Approx. Protein Concentrations

Antibody concentration 0.5 mg/ml

Specificity

Human Anti-Risankizumab Antibody, clone AbD58231 is a paratope specific, inhibitory, anti-idiotypic antibody (Type 1) that specifically recognizes the free human monoclonal antibody drug risankizumab, and its biosimilar products. It does not recognize the drug target, human Interleukin 23 (IL-23), nor risankizumab in complex with IL-23. This antibody can be used to measure free risankizumab levels in serum from patients.

Clone AbD58231 is available as a monovalent Fab antibody incorporating a SpyTag at the C-terminus end of the antibody heavy chain for conversion by the end user into alternative formats using any of the [SpyCatchers](#) available in our catalog under product code [TZA059](#). It is also available as a bivalent Fab antibody already conjugated to HRP via coupling to the HRP conjugated BiSpyCatcher2 ([TZC002P](#)) for use in direct ELISA under product code [TZA059P](#).

A pair of anti-risankizumab antibodies can be used to develop a pharmacokinetic (PK) bridging assay to measure free drug; clone AbD58231 is recommended as a detection antibody, paired with Human Anti-Risankizumab Antibody, clone AbD59012ad ([TZA058](#)) as the capture reagent.

Risankizumab (trade name Skyrizi) is a humanized monoclonal antibody of the IgG1/kappa isotype that suppresses the inflammatory effects of interleukin-23 by selectively targeting its unique p19 subunit, subsequently inhibiting IL-23 binding to its receptor and the signaling responsible for the release of pro-inflammatory cytokines and chemokines. Risankizumab is indicated as an interleukin-23 antagonist in the treatment of plaque psoriasis, psoriatic arthritis and Crohn's disease in adults.

Affinity

The monovalent intrinsic affinity of Human anti-Risankizumab Antibody, clone AbD58231ad was measured as $K_D = 0.2$ nM by real time, label-free molecular interaction analysis on immobilized risankizumab.

ELISA

Clone AbD58231ad can be used in indirect ELISA to detect risankizumab. It can also be used as a detection antibody to develop a pharmacokinetic (PK) bridging ELISA for risankizumab, together with [TZA058](#) as the capture reagent. Note that both TZA058 (capture) and TZA059 (detection) contain the same peptide tags. Therefore, using anti-tag antibodies for detecting TZA059 is not possible.

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

This product and/or its use is covered by claims of U.S. patents, and/or pending U.S. and non-U.S. patent applications owned by or under license to Bio-Rad Laboratories, Inc. See

bio-rad.com/en-us/trademarks for details.
His-tag is a registered trademark of EMD Biosciences.
Skyrizi is a registered trademark of AbbVie Biotechnology Ltd.

Health And Safety Information Material Safety Datasheet documentation #20479 available at:
<https://www.bio-rad-antibodies.com/SDS/TZA059>
20479

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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](#).

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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
'M433224:241003'

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