

Datasheet: VMA00897

BATCH NUMBER 157782

Description:	HUMAN ANTI GEP100
Specificity:	GEP100
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	AbD39152eg
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
Western Blotting	▪			1/1000

The PrecisionAb label is reserved for antibodies that meet the defined performance criteria within Bio-Rad's ongoing antibody validation programme. Click [here](#) to learn how we validate our PrecisionAb range. Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Further optimization may be required dependent on sample type.

Target Species	Human
Product Form	A bivalent human recombinant Fab selected from the HuCAL® phage display library, expressed in E. coli. This Fab fragment is dimerized via an inactive variant of the bacterial alkaline phosphatase (BAP) fusion protein. The antibody is tagged with DYKDDDDK and His (HHHHHH) tags. This antibody is supplied as a liquid.
Preparation	Prepared by affinity chromatography
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.01% Thiomersal
Approx. Protein	0.5 mg/ml

Concentrations

Immunogen GEP100 peptide coupled to BSA and TRF and biotinylated peptide (RLRSSMSENRRMSRRI-C and Bio-ERLRSSMSENRRIV)

External Database Links

UniProt:

[Q6DN90](#)

[Related reagents](#)

Entrez Gene:

[9922](#)

IQSEC1

[Related reagents](#)

Synonyms

ARFGEP100, BRAG2, KIAA0763

Specificity

Human anti GEP100 antibody recognizes IQ motif and SEC7 domain-containing protein 1, also known as ARFGEP100 and BRAG2.

GEP100 is a guanine nucleotide exchange factor for ARF6, a component of the RAS superfamily involved with membrane trafficking ([You et al. 2019](#)). AMAP1 is then the downstream effector of activated ARF6 ([Kinoshita et al. 2013](#)). GEP100 appears to control oncogenic processes in response to stimulation of EGF ([Hu et al. 2013](#)), also interacting specifically with EGF R ([Hu et al. 2012](#)). For example, in breast cancer, activation of ARF6 through GEP100 leads to invasion and metastasis through the EGF R pathway. GEP100 overexpression alongside ARF6 can also cause noninvasive MCF7 cells to become invasive ([Sabe et al. 2009](#)).

Western Blotting

Human anti GEP100 antibody detects a band of approximately 112 kDa in MCF7, HepG2, K562, A431 cell lysates

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

PrecisionAb is a trademark of Bio-Rad Laboratories

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 #10094 available at: <https://www.bio-rad-antibodies.com/SDS/VMA00897>

Regulatory

For research purposes only

Product inquiries: www.bio-rad-antibodies.com/technical-support

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