Datasheet: HCA332

Description:	HUMAN ANTI ErbB2 (pTyr1112)
Specificity:	ERBB2
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD33799
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	▪			

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	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
Source	E.coli
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.01% Thiomersal
Approx. Protein Concentrations	Antibody concentration 0.5 mg/ml

Immunogen	HER2-Yp peptide conjugated to BSA and human transferrin (SPLQR(Yp)SEDPTVPLPC and Bio-SPLQR(Yp)SEDPTVPLP)
External Database Links	**UniProt:** P04626 Related reagents **Entrez Gene:** 2064 ERBB2 Related reagents
Synonyms	HER2, MLN19, NEU, NGL
Specificity	**Human anti ErbB2 antibody (pTyr1112), clone AbD33799** recognizes receptor tyrosine-protein kinase erbB-2, otherwise known as HER2 and neu, when phosphorylated at tyrosine 1112. ErbB2 belongs to the ErbB family of receptor tyrosine kinases (Muthuswamy et al. 1999), which plays an important roles in the development of organs such as the mammary gland (Xie et al. 1997) and central nervous system (Carraway 1996). Phosphorylated at tyrosine 1112 provides a docking site for c-Cbl E3 ligase, which mediates receptor ubiquitination (Hynes and Stern 1994). PTPN18 dephosphorylates ErbB2 on tyrosine 1112 thereby blocking the lysosomal routing of the receptor tyrosine kinase (Wang et al. 2014).
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 trademark of EMD Biosciences.
Health And Safety Information	Material Safety Datasheet documentation #10094 available at: https://www.bio-rad-antibodies.com/SDS/HCA332 1
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.

North & South America Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com

Worldwide Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com

Europe Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com

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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