

Datasheet: MCA1410

Description:	MOUSE ANTI HUMAN ErbB3
Specificity:	ErbB3
Other names:	HER3
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	SGP1
Isotype:	IgG1
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	■			
Immunohistology - Frozen (1)	■			
Immunohistology - Paraffin		■		
ELISA	■			
Immunoprecipitation	■			
Western Blotting		■		

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

(1)The epitope recognised by this antibody is reported to be sensitive to formaldehyde fixation and tissue processing. Bio-Rad recommends the use of acetone fixation for frozen sections.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml

Immunogen	Wheat germ lectin purified ErbB3 protein
External Database Links	UniProt: P21860 Related reagents Entrez Gene: 2065 ERBB3 Related reagents
Synonyms	HER3
Fusion Partners	Spleen cells from immunized BALB/c mice were fused with cells of the mouse NS0 myeloma cell line.
Specificity	Mouse anti Human ErbB3 antibody, clone SGP1 recognizes human Receptor tyrosine-protein kinase erbB-3, also known as Proto-oncogene-like protein c-ErbB-3 or Tyrosine kinase-type cell surface receptor HER3. ErbB3 is a 1342 amino acid ~180 kDa glycoprotein containing a single protein kinase domain. Five isoforms of Erb-B3 are generated by alternative splicing. Mouse anti Human ErbB3 antibody, clone SGP1 recognizes a conformation dependent epitope on the extracellular protein core of ErbB3 rather than a carbohydrate moiety created during post-translational modification. ErbB3 is expressed widely in normal human tissues, but is over expressed in some tumours, including those of the breast, stomach, pancreas and colon (Lemoine et al. 1992). Mutations in the ERBB3 gene can lead to development of Lethal congenital contractural syndrome type 2, associated with atrophy of the spinal cord (Narkis et al. 2007).
References	1. Rajkumar, T. & Gullick, W.J. (1994) A monoclonal antibody to the human c-erbB3 protein stimulates the anchorage-independent growth of breast cancer cell lines. Br J Cancer. 70 (3): 459-65. 2. Rajkumar, T. <i>et al.</i> (1995) c-erbB3 expression in breast tumour derived cell lines. The Breast 4: 84-91. 3. Beerli, R.R. <i>et al.</i> (2000) Positive and negative regulation of endogenous genes by designed transcription factors. Proc Natl Acad Sci U S A. 97: 1495-500.
Storage	Store at +4°C for one month or at -20°C for longer. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Shelf Life	18 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...) [RPE](#)

Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®549 , DyLight®649 , DyLight®680 , DyLight®800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800
Goat Anti Mouse IgG (STAR70...)	FITC
Rabbit Anti Mouse IgG (STAR13...)	HRP
Human Anti Mouse IgG1 (HCA036...)	HRP

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

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
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