

Datasheet: MCA5986GA

Description:	MOUSE ANTI HUMAN EGF RECEPTOR
Specificity:	EGF R
Other names:	EPIDERMAL GROWTH FACTOR RECEPTOR
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	G02-2D5
Isotype:	IgG2a
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	■			
Western Blotting	■			1/1000

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	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G from ascites
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	<i>E. coli</i> derived recombinant protein corresponding to aa 363-499 of the human EGF receptor

External Database Links

UniProt:

[P00533](#) [Related reagents](#)

Entrez Gene:

[1956](#) EGFR [Related reagents](#)

Synonyms	ERBB1
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line.
Specificity	Mouse anti Human EGF Receptor, clone G02-2D5 recognizes the epidermal growth factor (EGF) receptor, a 150 kDa transmembrane receptor also known as ERBB1. The EGF receptor is a member of the ERBB family of four structurally related receptor tyrosine kinases. Binding of one of the many EGF receptor ligands (EGF, amphiregulin, TGFα, epiregulin) causes homodimerization of the receptor. This leads to downstream activation of several signalling pathways including MAPK/ERK, PI3K/Akt and PLCγ/PKC (Prenzel <i>et al.</i> 2001). Overexpression of the EGF receptor promotes gene amplification and mutation consequence in cell proliferation, survival, invasion, metastasis, and tumor induced neoangiogenesis (Ciardiello & Tortora, 2008).
Further Reading	1. Ciardiello, F. & Tortora, G. (2008) EGFR antagonists in cancer treatment. N Engl J Med. 358 (11): 1160-74. 2. Prenzel, N. <i>et al.</i> (2001) The epidermal growth factor receptor family as a central element for cellular signal transduction and diversification. Endocr Relat Cancer. 8 (1): 11-31.
Storage	Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. 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
Human Anti Mouse IgG2a (HCA037...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP

Recommended Negative Controls

MOUSE IgG2a NEGATIVE CONTROL (MCA929)

North & South Tel: +1 800 265 7376

America 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

'M261632:140925'

Printed on 02 May 2018

© 2018 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)