

Datasheet: MCA6370

BATCH NUMBER 157632

Description:	RABBIT ANTI EGF R (L858R MUTANT)
Specificity:	EGF R (L858R MUTANT)
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	RM380
Isotype:	IgG
Quantity:	0.1 ml

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
Immunohistology - Paraffin	▪			1/100 - 1/200
Western Blotting	▪			1/1000 - 1/2000

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 A from animal origin-free culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative	0.09% Sodium Azide
Stabilisers	1% Bovine Serum Albumin 50% Glycerol
Immunogen	A peptide corresponding to the the EGF R L858R mutant
External Database	UniProt:

Links[P00533](#)[Related reagents](#)**Entrez Gene:**[1956](#)

EGFR

[Related reagents](#)**Synonyms**

ERBB1

Specificity

Rabbit anti EGF R (L858R mutant) antibody recognizes epidermal growth factor receptor (EGF R), also known as ERBB1 and HER1, mutated at the residue L858R.

EGF R is a member of the ErbB family of receptor tyrosine kinases (RTKs) involved with activation of multiple signaling pathways including Ras/MAPK, PI3K/AKT, and PKC signaling ([Sigismund et al. 2018](#)). The EGF R plasma membrane receptor achieves this effect by binding to a range of extracellular growth factors, undergoing a conformational change, and transducing intracellular signaling ([Liu et al. 2017](#)). EGF R was one of the first identified oncogenes, and overexpression of EGF R has been reported in many human malignancies. The EGF R inhibitors gefitinib and erlotinib are used for treatment of advanced non-small cell lung cancer (NSCLC) ([Bethune et al. 2010](#)). The L858R activating mutation is a single-point substitution mutation in EGF R and is common in NSCLC. It is associated with decreased sensitivity to gefitinib and erlotinib ([Gazdar, 2010](#)).

Storage

Store at -20°C only.

Storage in frost-free freezers is not recommended.

This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee

12 months from date of despatch

Health And Safety Information

Material Safety Datasheet documentation #10048 available at:
<https://www.bio-rad-antibodies.com/SDS/MCA6370>
 10048

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)Sheep Anti Rabbit IgG (STAR35...) [RPE](#)Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)Sheep Anti Rabbit IgG (STAR36...) [DyLight®488](#), [DyLight®680](#), [DyLight®800](#)**North & South America** Tel: +1 800 265 7376

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