

# Datasheet: MCA6370

**BATCH NUMBER 157632**

<b>Description:</b>	RABBIT ANTI EGF R (L858R MUTANT)
<b>Specificity:</b>	EGF R (L858R MUTANT)
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	RM380
<b>Isotype:</b>	IgG
<b>Quantity:</b>	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](http://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.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A from animal origin-free culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide 1% Bovine Serum Albumin 50% Glycerol
<b>Immunogen</b>	A peptide corresponding to the the EGF R L858R mutant
<b>External Database</b>	<b>UniProt:</b>

**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**

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

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