

# EGFR ABfinity™ Recombinant Rabbit Monoclonal Antibody - Purified

Catalog no. 700308

(See product label for lot information)



**Clone/PAD:** 30H45L48  
**Isotype:** IgG  
**Gene ID:** 1956  
**Protein Acc. no.:** P00533  
**Qty:** 100 µg  
**Volume:** 200 µl  
**Concentration:** 0.5 mg/mL

## Formulation

PBS + 0.09% sodium azide

## Validation

See [www.invitrogen.com/antibodies](http://www.invitrogen.com/antibodies) for protocols

Validated for use in WB and IF

## Reactivity

Human

## Immunogen

Recombinant Protein

## Sequence Identity

Human

## Sequence Homology

Mouse, rat and dog

## Expected Reactivity

Based on sequence identity and similarity, reactivity to human, mouse, rat and dog is expected.

## Storage

2-8°C for up to 1 month, -20°C for long term storage. Avoid repeated freezing and thawing.

## Expiration Date

Expires one year from date of receipt when stored as instructed.

## Background

Epidermal Growth Factor Receptor (EGFR) is a 175 kDa transmembrane glycoprotein which belongs to the tyrosine kinase superfamily (2, 4). EGFR acts as a receptor for epidermal growth factor (EGF) family (1, 2). Binding of EGFR to its ligands causes autophosphorylation of tyrosine kinase followed by activation of signal transduction of the pathways connected to cell proliferation and differentiation (2). Deregulation of EGFR expression has been connected to carcinogenesis and metastasis (3).

## References

1. Bridges, A.J. (1999). The rationale and strategy used to develop a series of highly potent, irreversible, inhibitors of the epidermal growth factor receptor family of tyrosine kinases. *Current medicinal chemistry* 6, 825-843.
2. Herbst, R.S. (2004). Review of epidermal growth factor receptor biology. *International journal of radiation oncology, biology, physics* 59, 21-26.  
Khazaie, K., Schirrmacher, V., and Lichtner, R.B. (1993). EGF receptor in neoplasia and metastasis. *Cancer metastasis reviews* 12, 255-274.
3. Raymond, E., Faivre, S., and Armand, J.P. (2000). Epidermal growth factor receptor tyrosine kinase as a target for anticancer therapy. *Drugs* 60 Suppl 1, 15-23; discussion 41-12.
4. Zwick, E., Hackel, P.O., Prenzel, N., and Ullrich, A. (1999). The EGF receptor as central transducer of heterologous signalling systems. *Trends in pharmacological sciences* 20, 408-412.

Following applications had been tested during development. To make sure the consistency and reliability in the future lots, each lot is tested with antigen ELISA for specificity and potency. Each lot is also tested with SDS-PAGE, to ensure high purity.

## Applications:

	Species	Test Material	Concentration
Western Blotting	Human	A431	1-2 µg/ml
Immunofluorescence	Human	Hela	5-10 µg/ml

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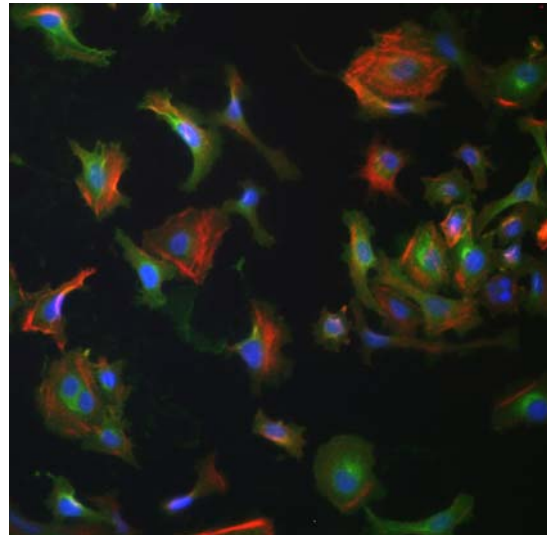
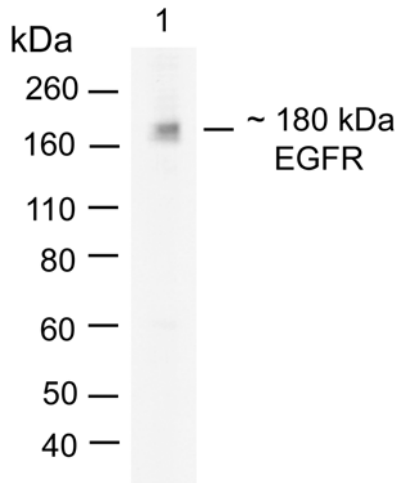
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**Western Blot of EGFR labeled with rabbit anti-EGFR (Cat. No. 700308).**

Rabbit anti-EGFR (1 µg/ml) was used to label EGFR in A431 cell lysate (30 µg). The western was performed using the WesternBreeze® kit with NBT/BCIP as the substrate (Cat. No. WB7105).

**Immunocytochemistry of HeLa cells labeled with rabbit anti-EGFR (Cat. No. 700308).**

HeLa cells were labeled with rabbit anti-EGFR (10 µg/ml). Alexa Fluor® 488 goat anti-rabbit (Cat. No. A11008) was used at 1:1000 as secondary antibody. Composite image of DAPI signal (shown in blue), anti EGFR (shown in green) and Phalloidin Alexa Fluor® 594 (shown in red).

**Explanation of symbols**

Symbol	Description	Symbol	Description
	Catalogue Number		Batch code
	Research Use Only		<i>In vitro</i> diagnostic medical device
	Use by		Temperature limitation
	Manufacturer		European Community authorised representative
	Without, does not contain		With, contains
	Protect from light		Consult accompanying documents
	Directs the user to consult instructions for use (IFU), accompanying the product.		

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