EGFR ABfinity™ Recombinant Rabbit Monoclonal Antibody – Purified

Catalog no. 700994

(See product label for lot information)

Clone/PAD:
Isotype:
Gene ID:
Protein Acc. no.:
Qty:
Volume:
Concentration:

30H45L42 IgG 1956 P00533 100 µg 200 µl 0.5 mg/mL

Formulation PBS + 0.09% sodium azide

Validation Validated for use in ELISA

Immunogen Recombinant protein

Sequence Identity Human

Sequence Homology Mouse

Expected Reactivity

Based on sequence identity and similarity, reactivity to human and Mouse is expected.

Storage

2-8℃ for up to 1 month, -20℃ 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 resulting in cell proliferation and differentiation (2). Deregulation of EGFR expression has been well established in several cancer including NSCLCs (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.
- 3. Khazaie, K., Schirrmacher, V., and Lichtner, R.B. (1993). EGF receptor in neoplasia and metastasis. Cancer metastasis reviews 12, 255-274.
- 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.
- 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:

Sondwitch ELISA Human A421 Coll Lycoto 1 Eug/ml		Species	Test Material	Concentration
Sandwitch ELISA Human A451 Cen Lysale 1-5 µg/mi	Sandwitch ELISA	Human	A431 Cell Lysate	1-5 μg/ml

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