Antibodies

Data Sheet

HUMAN EPIDERMAL GROWTH FACTOR RECEPTOR (EGF-R)

ANTIBODY, MONOCLONAL

Catalog no.:	AK 3008.1 / AK 3008.2
Immunogen:	Human EGF-Receptor
Synonyms:	Receptor tyrosine-protein kinase erbB-1, Proto-oncogene c-ErbB-1
Swiss-Prot No:	P00533
Gene Information:	Gene Name: EGFR, ERBB1 GeneID: 1956
Host:	Mouse Balb/c
Clone no.:	EGF-R2
Isotype:	IgG_1
Matrix:	Cell culture supernatant, Protein G purified, PBS pH 7.4, 0.1% NaN_3
Specificity:	Human EGF-Receptor (extracellular non ligand binding site) There was no cross reactivity obtained with v-erb-B.
Contents:	10 µg / 100 µg (lyophilized) Resuspend in 10 µl / 100 µl aqua bidest.
Known applications:	ELISA[1, 2,3], immunohistochemistry (paraffin sections, cryosections), immunocytochemistry[2], flow cytometry Antigen retrieval: Heat the deparaffinized, rehydrated sections 2x in fresh citrate buffer pH 6.0 for 5 min. in microwave This antibody has not been tested for use in all applications. This does not necessarily exclude its use for non-tested procedures. The stated dilutions are recommendations only. We suggest that the applicant titrates the antibody in his/her system using appropriate negative/positive controls.
Store at:	2-8 °C (lyophilized); - 20 °C (dissolved) Repeated thawing and freezing must be avoided

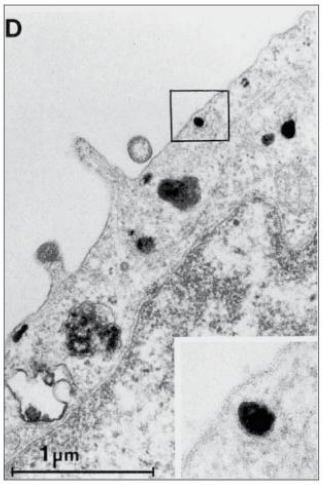

Figure 1: Electron microscopic image of internalized EGF-R/antibody-complexes in A431 cells. The cells were stained with AK3008 for 1 h at 4°C, followed by peroxidase-conjugated goat anti-mouse IgG. After fixation with 2.5% glutaraldehyde, the signal was detected using DAB (0.6 mg/ml) for 20 min at room temperature. The cells were then processed for the preparation of ultrathin sections.

Reins HA et al. (1993) J Cell Biochem 51(2):236-48

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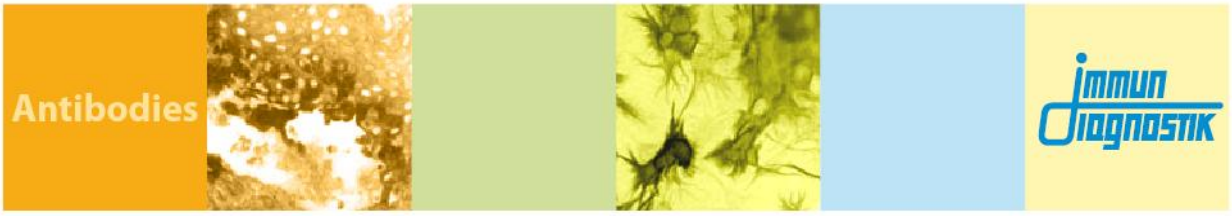

References:

1. Manneck H, Steinhilber G, Pollow K, Roos W, Ruppert J, Armbruster F (1993) Enzyme-linked Immunosorbent Assay for the Determination of Epidermal Growth Factor Receptor. *Klin Lab* **39**: 177-182.

2. Reins HA, Steinhilber G, Freiberg B, Anderer FA (1993) Anti-epidermal growth factor receptor monoclonal antibodies affecting signal transduction. *J Cell Biochem* **51**(2)**:** 236-248.

3. Roth H-J, Seikel I, Schmidt B, Klöppinger M, Kasper U, Armbruster FP (1994). Is it necessary for a quantitative EGF-receptor assay to detect the ligand bindin site? Comparison of methods: Radioligand Binding Assay (RLBA) vs. IEMA Ligang Binding Site vs. IEMA Non-Ligand Binding Site. *Klin Lab* **40:** 1025-1032.

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For research use only

Publishing research using AK3008? Please let us know so that we can cite your publication as a reference.

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