

CERTIFICATE OF ANALYSIS

Important Note: Centrifuge before opening to ensure complete recovery of vial contents.

Catalog #: K67902M **Lot #:** 32L33715
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Description: MAb to EGFR, Activated pTyr 1173
Monoclonal Antibody to Human Epidermal Growth Factor Receptor (EGFR), Phosphorylated at Tyrosine 1173

Specificity: Binding of EGF to the extracellular domain of the EGF-receptor results in receptor dimerization and autophosphorylation on tyrosine residues, Y1173 being the major autophosphorylation site. Clone 9H2 specifically interacts with the 1170 – NAEpYLRV motif corresponding to the major autophosphorylation site of human EGFR. The antibody does not interact with the non-phosphorylated EGFR nor with unrelated Tyrosine-phosphorylated proteins. This phosphorylation site-specific monoclonal antibody allows the detection and quantification of activated EGFR in crude cell extracts in Immunoblot, ELISA and Biosensor assay formats without the use of P32. Reacts with Human, mouse, and dog.

Clone: 9H2

Host Animal: Mouse **Isotype:** IgG₁

Source: Cell Culture

Immunogen: Phosphopeptide Conjugated to KLH

Format: Purified, Lyophilized
Reconstitute with 1 mL water for 15 minutes at room temperature.

Purification: Thiophilic adsorption and size exclusion chromatography.

Concentration: 100 µg/ml (prior to lyophilization).

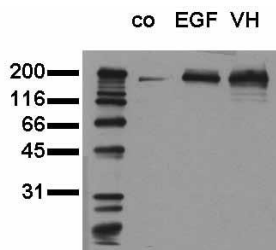
Buffer: Lyophilized from PBS, PEG and Sucrose.

Preservative: 0.09% Sodium Azide (prior to lyophilization).

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Applications:

Immunoblotting: 0.5 µg/mL for HRP/ECL detection.
Recommended Blocking Buffer CPPT: 0.5% (w/v) Casein, 1% (w/v) PEG 4000, 1% (w/v) Polyvinylpyrrolidone (PVP), 0.1% Tween 20, 10 mM Tris/HCl, pH 7.4, 150 mM Sodium Chloride.



Phosphospecificity

Whole cell extracts of control (co), EGF stimulated (EGF) or pervanadate treated (VH) A549 tumor cells were applied to SDS-PAGE (20,000 cells per lane) and transferred to a PVDF membrane. The blot was probed with 0.5 µg/mL K67902M for 1 hour at RT and developed by ECL (exp. time: 30 sec).

Immunoprecipitation: 1–10 µg per 10⁶ vanadate treated A431 cells.

Immunocytochemistry: 1–10 µg/mL

ELISA: 0.05 µg/mL

Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded.

Storage:

Store lyophilized product at -20°C. After reconstitution, aliquot and store at -80°C. Thawed aliquots may be stored at 2–8°C for up to 3 months. Avoid multiple freeze/thaw cycles.

Warning:

This product contains sodium azide, which has been classified as Xn (Harmful), in European Directive 67/548/EEC in the concentration range of 0.1–1.0%. When disposing of this reagent through lead or copper plumbing, flush with copious volumes of water to prevent azide build-up in drains.

Includes Positive Control:

Description:

Cell lysate of pervanadate-treated HepG2 cells.

Format:

Lysate, Lyophilized

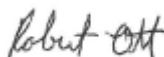
Reconstitute with 200 µL water. After complete solubilization of the proteins, add 200 µL SDS-PAGE sample buffer and incubate at 90°C for 5 minutes.

Applications:

For Western Blot applications: 20 µL/lane (mini gel) for HRP/ECL detection. 20 µL is approximately 80,000 cells. Lyophilized cell lysate contains SDS and is not recommended for applications with native proteins such as Immunoprecipitation.

Storage:

Store lyophilized product at -20°C. After reconstitution, aliquot and store at -20°C. Avoid multiple freeze/thaw cycles.



Signature

04 Dec 2015

Date

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY