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CERTIFICATE OF ANALYSIS

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

Catalog #

K67190M **Lot #:** 33L33715

Description: MAb to EGFR pS1047
Monoclonal Antibody to Human Epidermal Growth Factor Receptor (EGFR), Phosphorylated at Serine 1047

Specificity: The EGF Receptor (EFR) is activated upon stimulation with growth factors of the EGF family and autophosphorylates at multiple tyrosine residues. Serine phosphorylation of the carboxy terminal domain at Serine 1047 leads to ligand-dependent EGFR desensitization. However, if serine 1047 is phosphorylated, the neighboring tyrosine 1045 may not be phosphorylated due to sterical hindrance, thus inhibiting cbl-mediated receptor degradation. Clone 1H9 specifically recognizes EGFR phosphorylated at Serine 1047. Reacts with Human, mouse and dog.

Clone: 1H9

Host Animal: Mouse **Isotype:** $IgG_{1,}$

Source: Cell Culture

Immunogen: Synthetic phosphopeptide corresponding to amino acid residues surrounding Serine 1047.

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

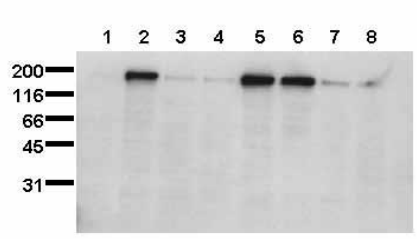
Purification: Thiophilic adsorption and size exclusion chromatography.

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

Buffer: Lyophilized from PBS, PEG, and Sucrose.

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

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.



EGFR Transactivation
Serum starved HepG2 cells were treated for 15 minutes as indicated. Whole cell lysates were separated by SDS-PAGE (20,000 cell per lane). The blot was probed with 0.5µg/ml K67190M for 1 hour at RT and developed by ECL (exp. time: 30 sec).

Lane 1: Control
Lane 2: PMA
Lane 3: Forskolin
Lane 4: LPA
Lane 5: Sorbit
Lane 6: Anisomycin
Lane 7: Lonomycin
Lane 8: Taxol

Immunocytochemistry: 0.1-1 µg/mL
ELISA: 0.1 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.

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 2x 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.

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

Robert Ott

Signature

04 Dec 2015

Date

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY